Energy Stations of the Future How fuel distribution networks will have to reshape their businesses by 2050 SIAPARTNERS



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Background

The profitability of traditional gas stations worldwide has been declining for more than a decade, in a context of stricter regulations, higher taxations and fuel consumption reductions.

Focusing on regulatory, technological and behavioral long-term trends, Sia Partners has analyzed how global fuel consumption will evolve over the next 30 years and has estimated that the number of traditional gas stations in certain continents could potentially drop by 50% in 2050 if they do not transform their businesses. This decline is related to a decrease in average vehicle fuel consumption, transformation of fleets from traditional gasoline engines to hybrid and electric, and a continuous decrease in distance travelled.

Depending on their locations and thus their customer needs, traditional gas stations will evolve in different ways. Due to their high volume of sales and vehicle traffic, highway gas stations might be thought more likely to withstand market changes, followed by urban gas stations. On the contrary: rural gas stations are at risk.

To thrive in the evolving landscape, fuel retail businesses must deploy four essential levers: energy diversification by expanding the array of energy products offered; elevation of the customer experience through premium services and digital innovations; provision of adjacent services via retail activities or by bolstering mobility hubs; and driving cost and time efficiencies through strategic partnerships.

How will these factors shape the Energy Stations of the Future? Companies will have to transform their operating models, elevate customer experiences and fully capitalize on end-to-end loyalty programs in order to thrive.

Welcome to Energy Stations of the Future!

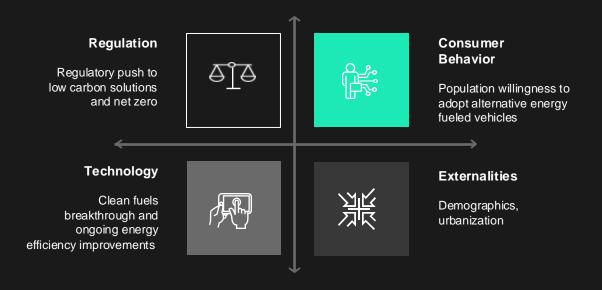
Objectives

The main objectives of this study are to assess the impact of energy transition on the fuel distribution sector in Europe, North America and Middle East by 2050 and identify recommendations to anticipate this transformation.

This study focused on light-duty fleet vehicles which represent approximately 80% of total fleet.

Four Forces Disrupting the Energy Retail Business

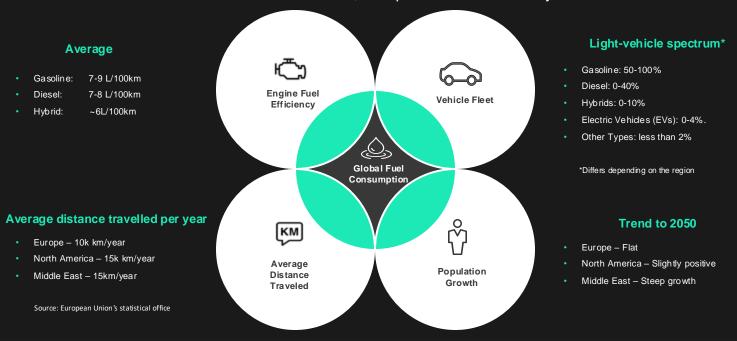
Sia Partners analyzed four forces that will have a direct impact on the evolution of energy station markets for decades to come.





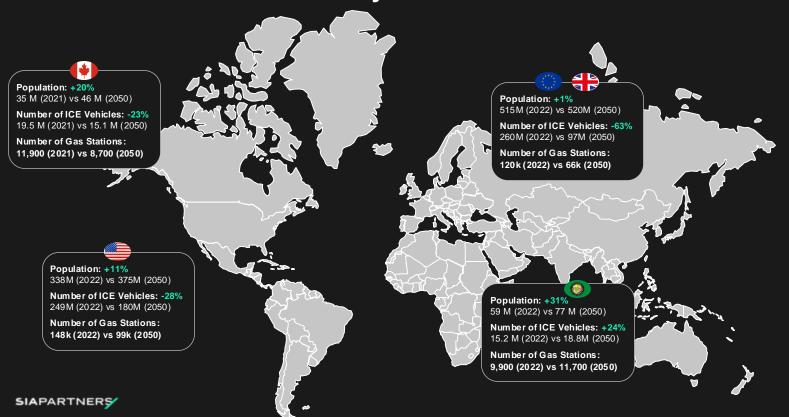
Scope of the Study

A group of four factors were analysed to assess the global fuel consumption, and ultimately the projection of the number of fuel retail stations across North America, Europe and Middle East by 2050.



Est. No. Traditional Gas Stations = Total Est. Sales Volume / Hist. Avg Sales Volume by Station

With a changing landscape, traditional gas stations could potentially suffer a structural decline if they don't transform their businesses



Energy Station Evolution in the Age of Hyper Transformation

Fuel retail businesses have been undergoing significant evolution over the past years, with a major shift from fuel revenue to non-fuel revenue, underpinned by companies' ability to understand client preferences and monetize from there.



Fuel Distribution Evolution

Remote Gas Stations:

- Fuel distribution only
- Regulatory commitment

Vintage

Minimalist

Urban Convenience Stores:

- Fuel pumps
- Parcel pickup
- Low entry convenience store items

Standard

Self-Service Fuel Stations:

- Silver Standard
- Parcel pickup
- Convenience store items
- Car wash or tires or fluid checks
- Balance focus between fuel supply and services

Full-Service Stations:

- Gold Standard
- Pleasant experience
- Restaurants, lodging, others
- Extra services (fluid, wash, tires, etc.)

Integrated

- ERP, CRM, Loyalty program, others
- Focus on services is greater than fuel supply

Intelligent

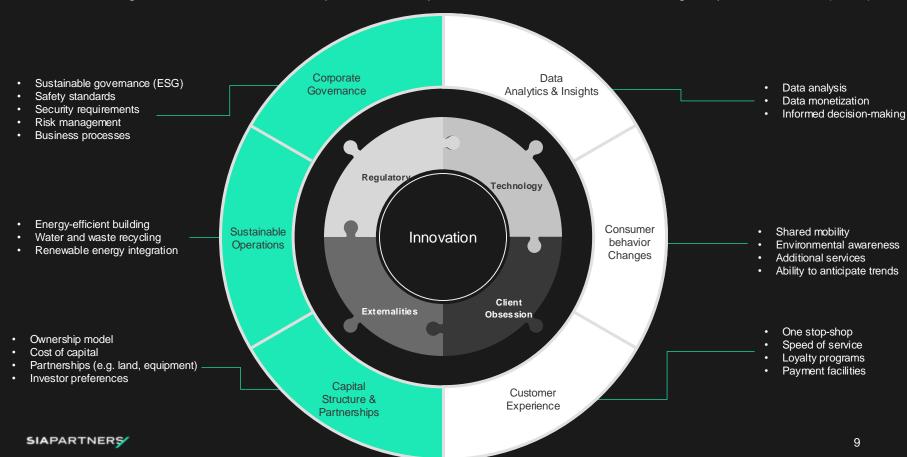
Single integrated place for consumer:

- Platinum Standard
- Customer Obsession
- One-stop-shop approach
- Hyper automated with data monetization
- Dinner and shopping experience
- Focus shift from fuel supply to services



Energy Stations Target Operating Model Framework

For traditional gas stations to survive, companies should put innovation as a core of their Target Operation Model (TOM)



Methodology, Assumptions and Limitations:

Methodology:

- Predicted evolution in the urbanization rate has been considered to modify the distance covered per car per year in each state and province by 2050.
- 2050 vehicle fleet numbers have been projected from historical trends of the reference years (2016-2022*)

Assumptions:

- The ratio of car/person has been kept constant between the latest historical year (2021/2022) and 2050.
- The average fuel efficiency in 2050 has been projected to be 5L/100km for hybrids cars, 6L/100km for diesel cars and 7L/100km in Europe for gasoline cars (7.5L/100km in North America and the Middle East).
- The distance traveled per car per year has been kept constant between states and is based on federal data**.
- The average distance travelled per car per year in the Middle East is assumed to be similar to the one in the U.S.**
- Only gasoline, hybrids and electric vehicles are the only ones to be considered in the Middle East region.
- The vehicle fleet in Oman, Bahrain, Kuwait, Qatar and Saudi Arabia have been modelled around the data from the UAE.

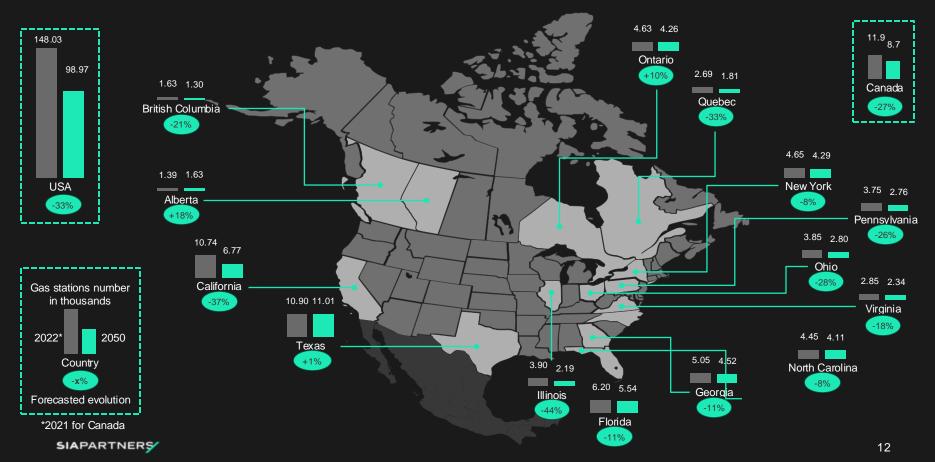
Limitations:

- Bio-diesel and ethanol-powered vehicles have been left out of the scope of the study.
- California energy stations numbers include all types of retail fuel stations while other state-level data only includes gasoline stations.

North America

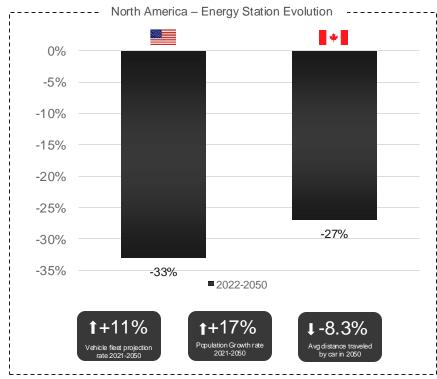
The gas stations market in 2050

American and Canadian gas stations will respectively fall by 33% and 27% between 2022* and 2050



North America – Energy Station Evolution

Our research indicates that in both the USA and Canada traditional gas station* numbers are forecasted to contract significantly unless they undertake transformative measures in their operating models.



^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams.

Source: Population (Macrotrends USA & Canada), World Bank (GDP), US Dept. of Energy & Statcan (Vehicles)

Influencing factors

The reduced number of traditional gas stations in North America can be explained by a restrictive environment linked to:

- Regulatory changes with federal and state/provincial governments adopting bans on the sale of new ICE vehicles by 2035 and others promoting technology neutrality.
- Consumer adoption of EVs and hybrid vehicles motivated by a lower total cost of ownership and environmental awareness.
- Technology improvements around EVs are anticipated to improve battery lifetime and autonomy, making the product appealing to an even wider consumer base.

Anticipated growing population with a constant ratio of vehicles per person is however increasing the vehicle fleet size allowing ICE cars to keep a dominant position.







EVs represented **less than 1 percent** (0.9%) of the United States vehicle fleet in 2022.

Externalities:

The U.S. should experience a **strong demographic growth** (+11% on the 2022-2050 period). Population will increase from **338.3 million in 2022**¹ to **375.4 million in 2050**², meanwhile its urbanization rate should increase from **82**% to **89**%³.

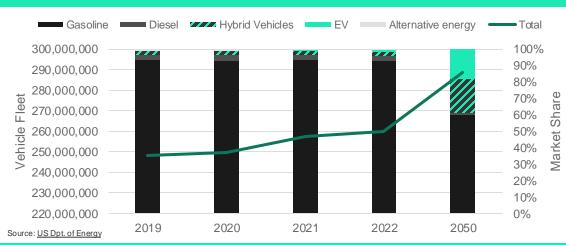


Regulation:

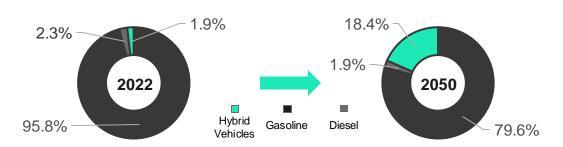
12 U.S. states governments are engaged in banning the sales ICE gas-powered vehicles by 2035⁴.

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Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 343.7 *billion*

Forecasted volume of fuel sales: 226.8 billion

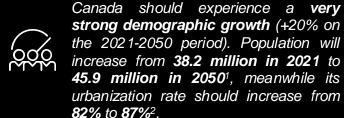
Source: Census 14





EVs represented less than 1 percent (0.8%) of the Canadian vehicle fleet in 2021.

Externalities:



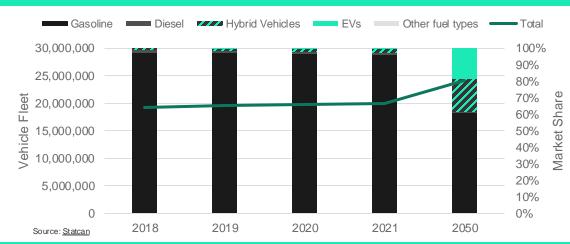


Regulation:

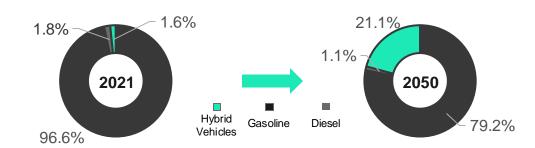
The Government of Canada has announced a ban on new ICE vehicle sale by 20353.



Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



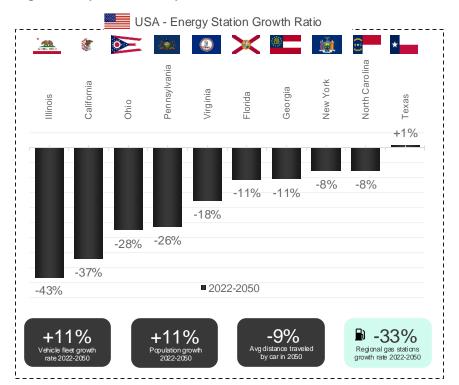
Estimated volume of fuel sales: 22.8 billion

Forecasted volume of fuel sales:

16.4 billion

USA – Energy Station Evolution

Our research indicates that in both the USA and Canada traditional gas station* numbers are forecasted to contract significantly unless they undertake transformative measures in their operating models.



^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams. Source: Census, Tax Foundation, *How high are Gas Taxes in Your State?* (2023)



The 3 Most Resilient States

Texas $(10,900 \rightarrow 11,008)$

Consumer behavior. Low EV adoption rate (0.7% fleet share in 2022 vs 0.9% fleet share at US level).

Externalities: Strong demographics (+35.6% predicted population increase by 2050 compared to 2022).

Regulation: The State of Texas applies one of the lowest state tax rates in the USA on both gasoline and diesel. A legislation preventing any restriction in the sale of a vehicle based on its fuel type in the state's local government has been enforced since September 1, 2023.

North Carolina (4,450 → 4,106)

Consumer behavior. Low EV adoption rate (0.5% fleet share in 2022 vs 0.9% fleet share at US level).

Externalities: Strong demographics (+30.9% predicted population increase by 2050 compared to 2022).

New York $(4,650 \rightarrow 4,289)$

Externalities: Booming demographics (+41.7% predicted population increase by 2050).

Regulation: The State of New York has aligned its vehicle emission standards to California and will

therefore enforce the new emissions standards effectively banned the sale of new ICE passenger cars by 2035.



The 3 Least Resilient States

Illinois (3,900 → 2,213)

Externalities: Declining demographics (-14.2% predicted population decline by 2050).

Regulation: The State of Illinois applies the third highest state tax rate on gasoline and diesel.

California (10,742 → 6,771)

Consumer behavior. High EV adoption rate (2.5% fleet share in 2022 vs 0.9% at US level).

Externalities: Stagnant demographics (+2.6% predicted population increase by 2050).

Regulation: The State of California has enforced new emissions standards effectively banning the sale

of new ICE passenger cars by 2035.

The State of California also applies the highest state tax rate in the USA on gasoline and the second highest for diesel.

2 Ohio (3,850 → 2,792)

Externalities: Slightly declining demographics (-5.4% predicted population decline by 2050).



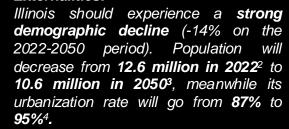






Low EV adoption rate¹ (0.7% fleet share in 2022 vs 0.9% fleet share at national level)

Externalities:



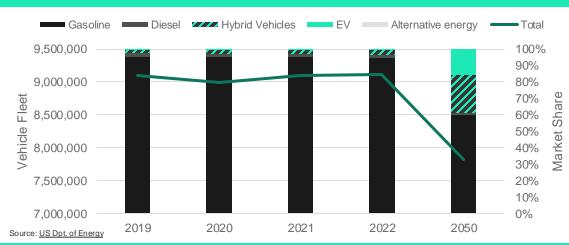


Regulation:

The State of Illinois applies the third highest state tax rate on gasoline and diesel.

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Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 10.8 billion

Forecasted volume of fuel sales: 6.2 billion

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California



Consumer behavior:

The highest EV adoption rate¹ of all U.S. states (2.5% fleet share in 2022 vs 0.9% at national level)

Externalities:





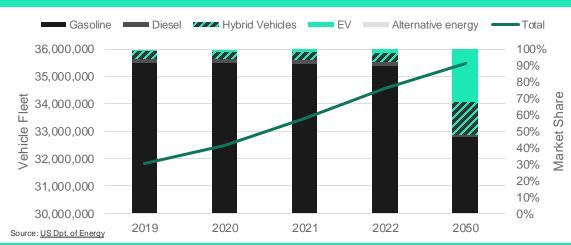
Regulation:

The State banned the sale of new ICE passenger cars by 2035⁵ and applies the highest state tax rate in the USA on gasoline and the second highest for diesel.

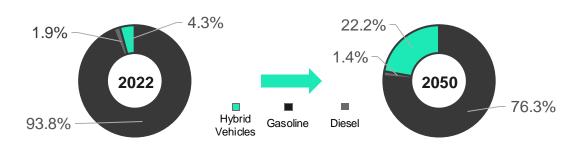


Sources: <u>US Dpt. of Energy</u>¹, <u>Census</u>², <u>Dep. Of</u> <u>Finance</u>³, <u>New Geography</u>⁴, <u>Government of</u> Califomia⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 40 billion

Forecasted volume of fuel sales: 24.5 billion

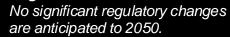




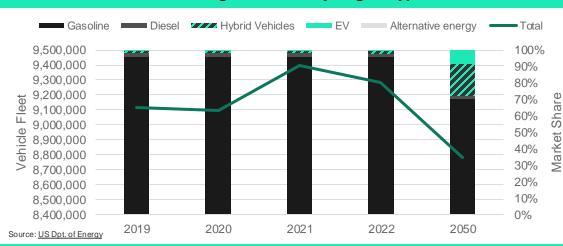
Externalities:

Ohio should experience a **slight demographic decline** (-5% on the 2022-2050 period). Population will decrease from 11.8 million in 2022² to 11.1 million in 2050³, meanwhile its urbanization rate will go from 76% to 81%⁴.

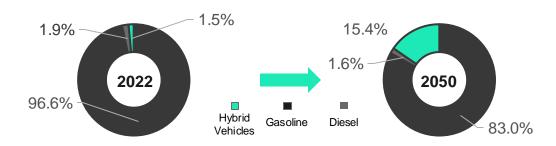
Regulation:



Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 11.1 billion

Forecasted volume of fuel sales: 8.03 billion



New York



Consumer behavior:

Low EV adoption rate¹ (0.7% fleet share in 2022 vs 0.9% fleet share at national level)

Externalities:

New York State should experience booming demographics (+42% on the 2022-2050 period). Population will increase from 19.7 million in 2022² to 27.9 million in 2050³, meanwhile its urbanization rate will go from 87% to 95%⁴.

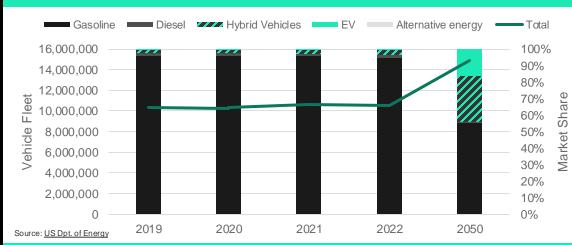


Regulation:

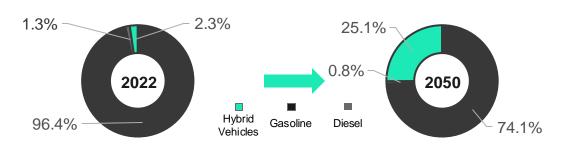
The State has aligned its vehicle emission policy to California and will ban the sale of new ICE passenger cars by 2035⁵.



Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 12.5 billion

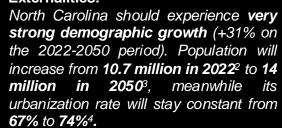
Forecasted volume of fuel sales: 11.6 billion





Low EV adoption rate1 (0.5% fleet share in 2022 vs 0.9% fleet share at national level)

Externalities:

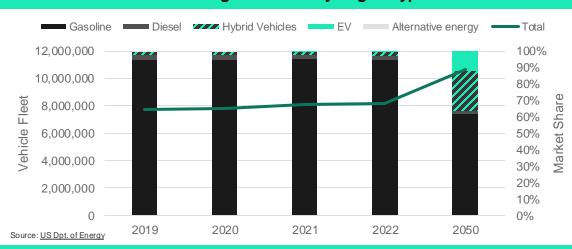




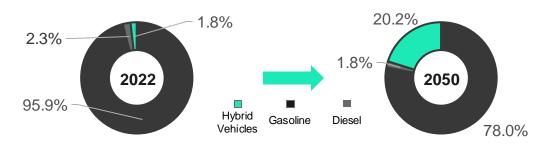




Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 9.7 billion

Forecasted volume of fuel sales:

8.65 billion





Low EV adoption rate¹ (0.7% fleet share in 2022 vs 0.9% fleet share at national level)

Externalities:





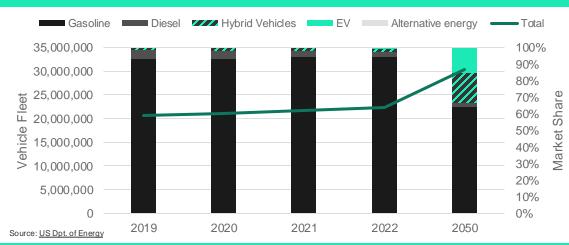
Regulation:

One of the lowest state tax rates in the USA on both gasoline and diesel and a legislation preventing any restriction in the sale based on the fuel vehicles type⁵.

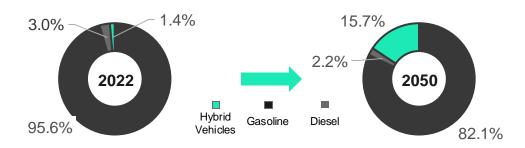


Sources: <u>US Dpt. of Energy</u>¹, <u>Census</u>², <u>Texas</u> <u>Demo.</u>³ <u>New Geography</u>⁴, <u>Legiscan</u>⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)

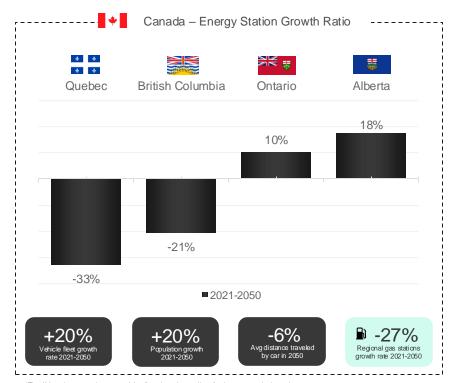


Estimated volume of fuel sales: 26.6 billion

Forecasted volume of fuel sales: 25.2 billion

Canada – Energy Station Evolution

Our research indicates that in both the USA and Canada traditional gas station* numbers are forecasted to contract significantly unless they undertake transformative measures in their operation models.



^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams.

Source: Statcan



The 2 Most Resilient Provinces

Alberta (1,390 → 1,633)

Consumer behavior. Low EV adoption rate (0.2% fleet share in 2021 vs 0.8% fleet share at Canada level => 5.5% in 2050 vs 16.7% at Canada level).

Externalities: Booming demographics (+66%) predicted population increase by 2050 compared to 2021).

Regulation: The Government of Canada has announced a ban on new ICE vehicle sales by 2035. The Government of the Province of Alberta is going to implement an electric vehicle registration tax.

Ontario $(4,632 \rightarrow 5,110)$

Consumer behavior. Low EV adoption rate (0.5% fleet share in 2021 vs 0.8% at Canada level => 8.3% in 2050 vs 16.7% at Canada level).

Externalities: Booming demographics (+55% predicted population increase by 2050).

Regulation: The Government of Canada has announced a ban on new ICE vehicle sale by 2035.



The 2 Least Resilient Provinces

Quebec (2.691 → 1.802)

Consumer behavior. High EV adoption rate (1.2% fleet share in 2021 vs 0.8% at Canada level => 25.3% in 2050 vs 16.7% at Canada level).

Externalities: Small population increase (+13% predicted population increase by 2050).

Regulation: The Province of Quebec directly subsidizes the purchase of EVs and has an ambitious EV charging strategy throughout the province.

British Columbia (1.627 → 1.288)

Consumer behavior. High EV adoption rate (1.8% fleet share in 2021 vs 0.8% at Canada level => 15.3% in 2050 vs 16.7% at Canada level).

Externalities: Booming demographics (+60% predicted population decline by 2050).

Regulation: The Government of Canada has announced a ban on new ICE vehicle sale by 2035.

The Province of British Columbia has a target of 10k public EV charging stations by 2030, directly supporting greater EV adoption.

















High EV adoption rate (1.2% fleet share in 2021 vs 0.8% at Canada level and 25.3% in 2050 vs 16.7% at national level)¹.

Externalities:



Quebec should experience **growing demographics** (+13% on the 2021-2050 period). Population will increase from **8.5 million in 2021** to **9.7 million in 2050**³, meanwhile its urbanization rate from **81**% to **87**%⁴.

Regulation:

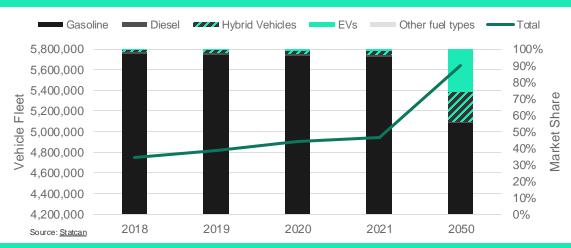


Subsidizes available for EV purchase⁵, in addition to strong financial policies to expand EV charging infrastructure⁶.

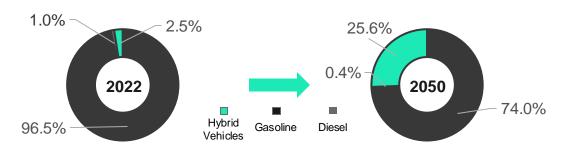


Sources: Statcan¹, <u>Statistique</u> Québeç², Statistics Canada³, Statistics Canada & Estimation (2050)⁴, Québec Government (<u>Subsidies</u>° and EV charging policy²)

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 3.64 billion

Forecasted volume of fuel sales: 2.50 billion





High EV adoption rate (1.3% fleet share in 2021 vs 0.8% at Canada level => 15.3% in 2050 vs 16.7% at Canada level)1.

Externalities:



British Columbia should experience booming demographics (+60% on the 2021-2050 period). Population increase from 5 million in 2021 to 8 million 2050². meanwhile urbanization rate from 89% to 93%3.

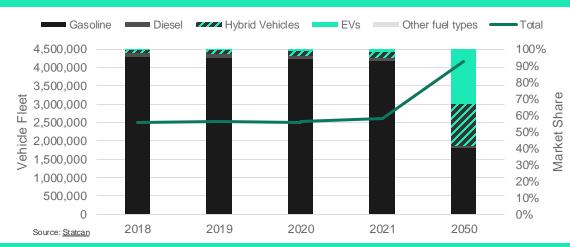
Regulation:



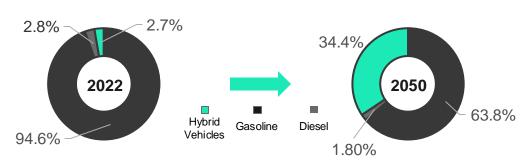
The Province of British Columbia has a target of 10k public EV charging stations by 2030, directly supporting greater EV adoption⁴.

Sources: Statcan1, Statistics Canada2, Statistics **SIAPARTNERS** Canada & Estimation (2050)3, BC Government4

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 2.43 billion

Forecasted volume of fuel sales:

1.92 billion





Low EV adoption rate (0.5% fleet share in 2021 vs 0.8% at Canada level and 8.3% in 2050 vs 16.7% at Canada level)¹.

Externalities:



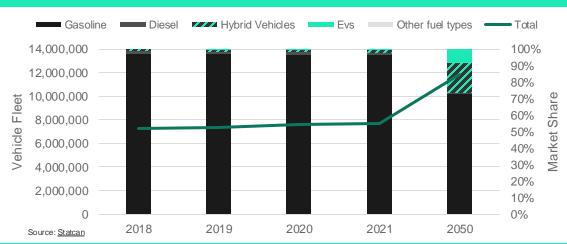
Ontario should experience **booming demographics** (+55% on the 2021-2050 period). Population will increase from **14.2 million in 2021** to 22 **million in 2050**°, meanwhile its urbanization rate from **90%** to **93%**³.

Regulation:

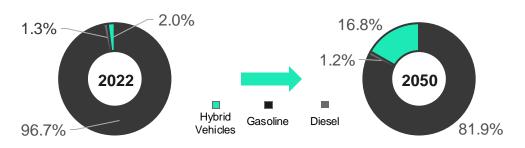


No major regulation influence in the Ontarian province.

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 8.52 billion

Forecasted volume of fuel sales: 9.20 billion





Low EV adoption rate (0.2% fleet share in 2021 vs 0.8% at Canada level and 5.5% in 2050 vs 16.7% at national level)1.

Externalities:



Alberta should experience booming **demographics** (+64% on the 2021-2050 period). Population will increase from 4.3 million in 2021 to 7 million in 20503, meanwhile its urbanization rate from 81% to 87%⁴.

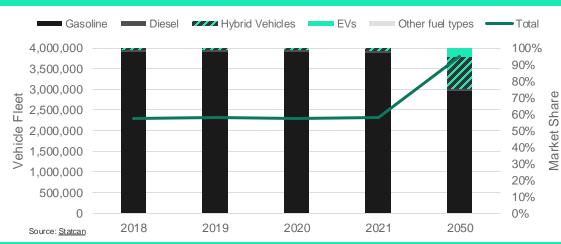
Regulation:



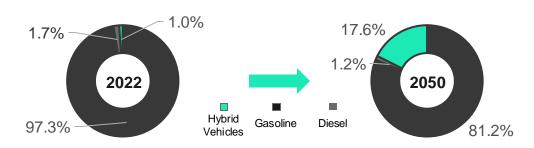
The Government of the Province of Alberta is going to implement an electric vehicle registration tax⁵.

Sources: Statcan1, Alberta OSI2, Statistics **SIAPARTNERS** Canada³ Statistics Canada & Estimation

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 3.08 billion

Forecasted volume of fuel sales:

3.58 billion

During the next decades, North American traditional gas station market will be challenged and upended by vehicle fleets transformation.

By 2050, low carbon solutions will prevail, tightening fuel sales volume.

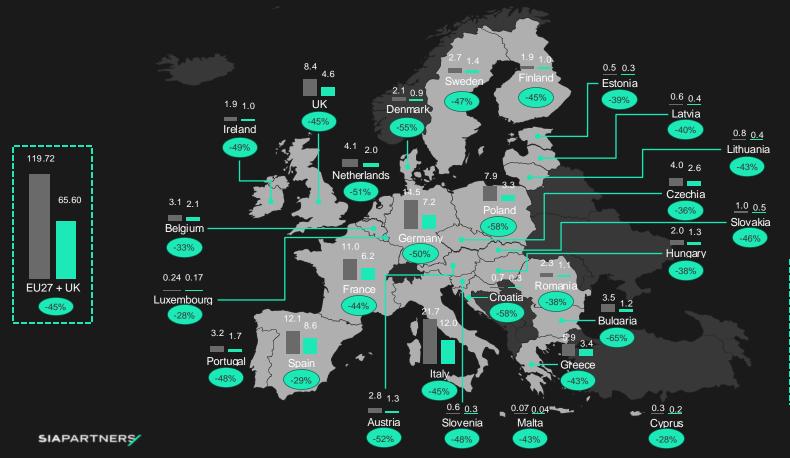
As a result, the volume of traditional gas stations is anticipated to fall by 33% in the United States and 27% in Canada.

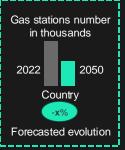
Only those which reinvent themselves and become customer-centric will survive.

Europe A 66.14

The gas stations market in 2050

European gas stations will fall by 45% between 2022 and 2050





EU27+UK- Energy Station Evolution

Our research indicates that the same fate await traditional gas stations in Europe: their activities are expected to decline in all regions, doing so more drastically in Eastern Europe and more moderately in Southern Europe



- In the context of the European Union Green Deal "Fit for 55", every countries from the EU have to make their own strategy to deal with the 2035 rule forbidden the sell of brand-new petrol cars (UK voted the same law)
- Overall, all regions are gradually moving towards promoting EV adoption as part of their efforts to reduce emissions, as a result the number of gas stations will decrease in every parts of Europe, from -40% to -56%
- The global evolution of populations fluctuates among the zones, increasing in the Western, Central and Northern Europe, decreasing in the other parts

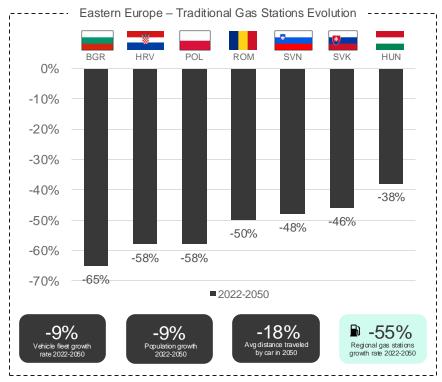
ŮŮ	Population (2022)	515,296,063
3	GDP per capita (in USD, 2022)	\$ 38,580
	Ratio Vehicles / Pop (2022)	0.55
	Number of gas stations (2022 / 2050)	119,715 / 65,598

Influencing factors

^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams.

Eastern Europe – Energy Station Evolution

Traditional service stations activities in Eastern Europe will all experience significant decline but at a different pace: the ones in Bulgaria, Croatia and Poland will do so drastically, while the ones in Hungary will do so moderately.



^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams.

Influencing factors

- Overall, all regions are gradually moving towards promoting EV adoption as part of their efforts to reduce emissions, mostly translated by a tax reduction or exemption.
- Other countries impulse the favorable policy further by issuing grants or loans at subsidized rate when buying new EVs.
- Poland, Romania and Hungary, the three most populated countries, also stand out as the most ambitious ones with additional incentives.

ŮŮŮ	Population (2022)	6,643,324	3,856,600	37,203,992	10,048,502
	GDP per capita (in USD, 2022)	\$ 13,974	\$ 18,570	\$ 18,688	\$ 15,787
	Ratio Vehicles / Pop (2022)	0.43	0.47	0.49	0.41
■3	Number of gas stations (2022 / 2050)	3,531 / 1,245	658 / 276	7,898 / 3,328	2,292 / 1,141
ůůů	Population (2022	2)	2,112,076	5,431,752	9,644,377
\$	GDP per capita (in USD, 2022)		\$ 28,439	\$ 21,257	\$ 18,390
	Ratio Vehicles / Pop (2022)		0.55	0.42	0.43
	Number of gas stations (2)	022 / 2050)	553 / 290	970 / 526	2,012/1,256





Annual circulation tax exemption as well as free parking in larger cities for non-thermal vehicles¹.



Technologies:

2024: **2,200** public EV charging points² 2026 target: **10,000** charging **stations**³



Population evolution:

Bulgarian population will decrease from 6.64 million in 2022 to 5.86 million in 2050⁴, meanwhile its urbanization rate will go from 76.4% to 84.9%⁵.

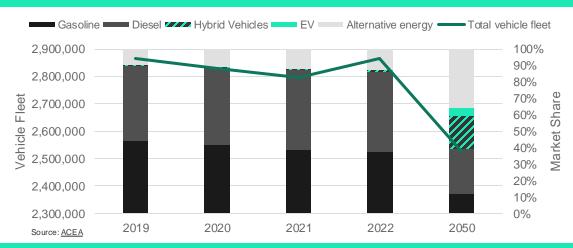


Average distance per car in a year: In 2022, a Bulgarian car travelled 10,266 km⁶, this distance should decrease to 9,124 km in 2050.

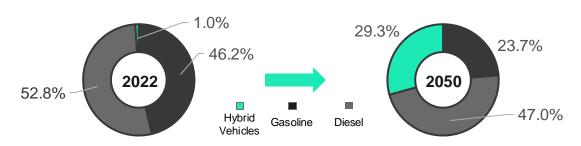


Sources: European Commission (incentives¹ and summary³), MOEW Bulgarian Government)³, Eurostat (present and projected demographics¹⁴, UN⁵, Odvssee-mure®

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 1.87 billion

Forecasted volume of fuel sales: 801 million

33

Source: FuelsEurope





Co-financing from the government for citizens and legal entities buying non-thermal vehicles¹.



Technologies:

2024: **1,300** public EV charging points² 2030 target: Not announced



Population evolution:

Croatian population will decrease from **3.86 million in 2022** to **3.31 million in 2050**³, meanwhile its urbanization rate will go from **58.3%** to **71.2%**⁴.

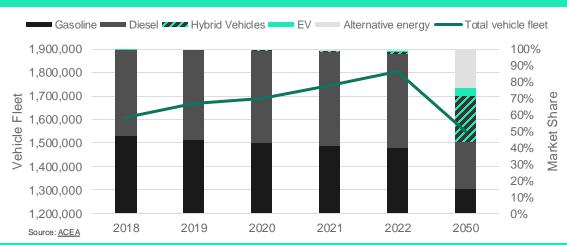


Average distance per car in a year: In 2022, a Croatian car travelled 10,266 km⁵, this distance should decrease to 7,994 km in 2050.

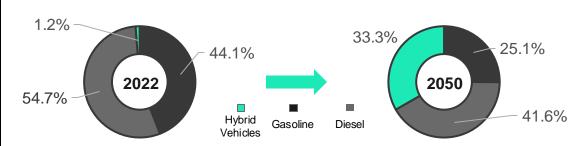
SIAPARTNERS/

Sources: European Commission (<u>incentives</u>¹ and <u>summary</u>²), Eurostat (<u>present</u> and <u>projected</u> demographics)³, <u>UN</u>⁴, <u>Odyssee-mure</u>⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 1.33 billion

Forecasted volume of fuel sales: 515 million

34

Source: FuelsEurope





Discounted to free public EV-charging and free-to-use bus lanes for EVs in addition to numerous financial incentives.¹



Technologies:

2024: **6,500** public EV charging points² 2030 target: **60,000**³



Population evolution:

Polish population will slightly decrease from **37.2 million in 2022** to **34.6 million in 2050**⁴, meanwhile its urbanization rate will go from **60.1%** to **70.4%**⁵.



Average distance per car in a year: In 2022, a Polish car travelled 10,266 km⁶, this distance should decrease to 8,507 km

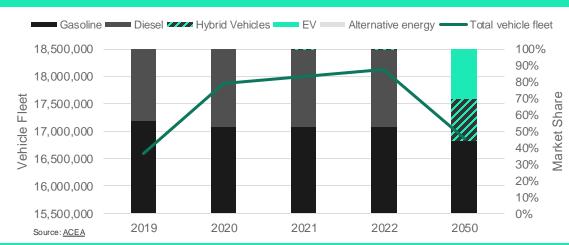
in 2050.

Sources: European Commission (incentives)

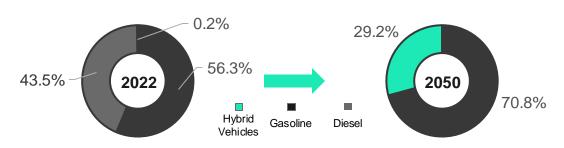
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Sources: European Commission (incentives)
and summary) __ILA3E_tructatal (present and appropriate). ILMS_Code and appropriate [Incomment and Incomment and I

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 13.8 billion

Forecasted volume of fuel sales: 6.26 billion

35





Free or discounted public charging, preferential parking, as well as lower insurance premiums for EVs¹.



Technologies:

2024: **3,000** public charging points² 2030 target: **600,000**³



Population evolution:

Romanian population will decrease from **19 million in 2022** to **16.5 million in 2050**⁴, meanwhile its urbanization rate will go from **54.5**% to **66.7**%⁵.

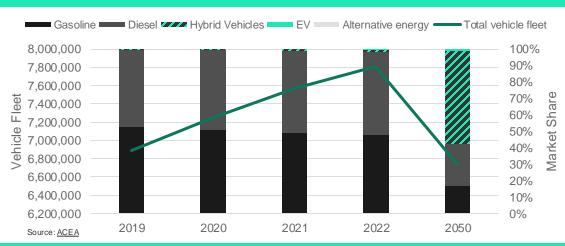


Average distance per car in a year: In 2022, a Romanian car travelled 10,266 km⁶, this distance should decrease to 7,968 km in 2050.

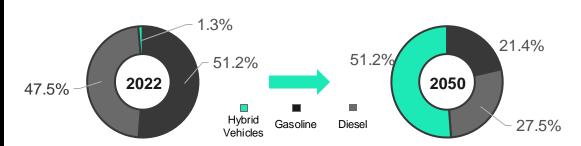
SIAPARTNERS/

Sources: European Commission (<u>incentives'</u> summary² and Romanian 2021-2030 INECP) IEA³: Eurostat (<u>present</u> and <u>projected</u> demographics)⁴; LIM⁵; Odvssee-mure⁶

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 5.87 billion

Forecasted volume of fuel sales: 2.97 billion

36

Source: FuelsEurope





Minimum tax rate of 0.5% for BEVs and up to 7,500€ of purchase subsidies granted for private customers¹.



Technologies:

2024: **1,600** public EV charging points² 2030 target: **22,300**³



Population evolution:

Slovenian population will slightly decrease from **2.11 million in 2022** to **2.10 million in 2050**⁴, meanwhile its urbanization rate will go from **53.9%** to **65.7%**⁵.

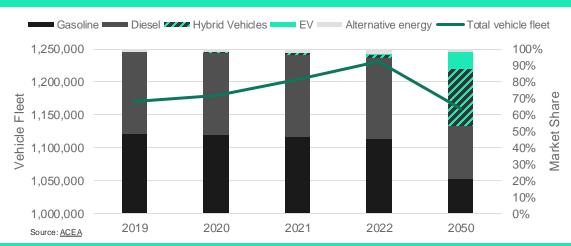


Average distance per car in a year: In 2022, a Slovenian car travelled 10,266 km⁶, this distance should decrease to 8,019 km in 2050.

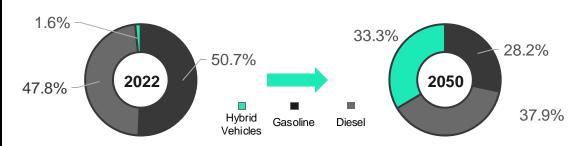


Sources: European Commission (incentives¹, summary² and Commission assessment), Eurostat (present and projected demographics)³, UN⁴, Odyssee-mure⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 895 million

Forecasted volume of fuel sales: 478 million

37





No annual ownership tax for private EV owners, in addition to a reduced company car tax benefit for business EV owners¹.



Technologies:

2024: **2,500** public EV charging points² 2030 target: Not announced



Population evolution:

Slovakian population will slightly decrease from **5.43 million in 2022** to **5.18 million in 2050**³, meanwhile its urbanization rate will go from **53.9%** to **65.7%**⁴.

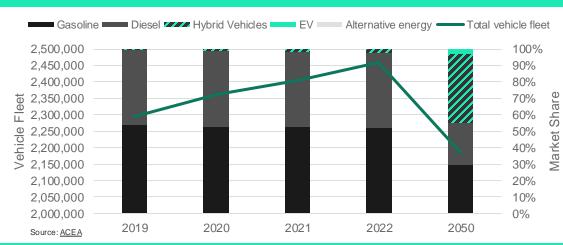


Average distance per car in a year: In 2022, a Slovakian car travelled 10,266 km⁵, this distance should decrease to 8,019 km in 2050.

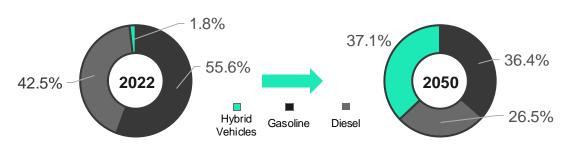
SIAPARTNERS/

Sources: European Commission (<u>incentives</u>¹ and <u>summary</u>²), Eurostat (<u>present</u> and <u>projected</u> demographics)³, <u>UN</u>⁴, <u>Odvssee-mure</u>⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 1.86 billion

Forecasted volume of fuel sales: 997 million





Budget of 79 M€ available for supporting EV-purchase for companies, completed by free parking for green-plate vehicles¹.



Technologies:

2024: **3,500** public charging points² 2030 target: Not announced



Population evolution:

Hungarian population will decrease from **9.64 million in 2022** to **9.23 million in 2050**³, meanwhile its urbanization rate will go from **72.6%** to **81.8%**⁴.

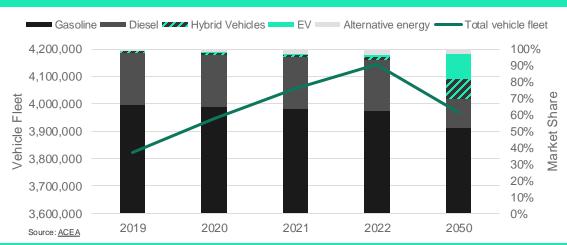


Average distance per car in a year: In 2022, a Hungarian car travelled 10,266 km⁵, this distance should decrease to 8,965 km in 2050.

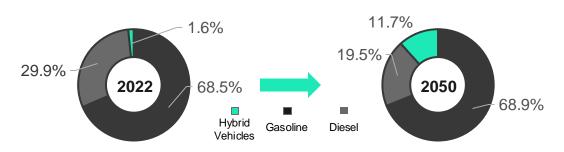
SIAPARTNERS/

Sources: European Commission (<u>incentives</u>¹ and <u>summary</u>²), Eurostat (<u>present</u> and <u>projected</u> demographics)³, <u>UN</u>⁴, <u>Odvssee-mure</u>⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)

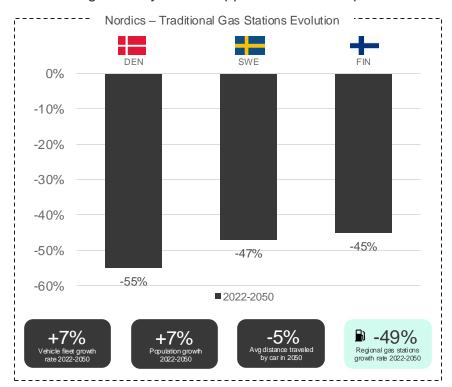


Estimated volume of fuel sales: 3.05 billion

Forecasted volume of fuel sales: 1.89 billion

Nordics – Energy Station Evolution

Our research indicates that similar fates await traditional gas stations in the Nordic region: they are forecasted to contract significantly while it appears that their operations could be the most compromised in Denmark.



^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams.

Influencing factors

- Overall shared ambition between Scandinavian countries to promote electric vehicles and favorable financial incentives for EV charging stations network development as a part of energy policies.
- Governments aim to reduce greenhouse gas emissions and dependence on fossil fuels
 through: Subsidies, tax reduction to exemption for both private and legal entities that own
 and use non-thermal vehicles, charging infrastructure benefits as well as discounted to free
 parking for low emission vehicles such as hybrids and BEVs.
- The three countries have implemented low-emission zones and even zero-emission zone
 in its mots populated urban areas, compromising thermal vehicles circulation.

Country specific legislations and ambitions

- Sweden: Grants of 50% for home charging infrastructure and of 20% for public transport vehicles
- Finland: 0% import taxes on zero-emission cars and grants for buying new and used EV cars and trucks until 2024, the country aims to have 700,000 EVs by 2030 (of which 50% are BEVs)
- <u>Denmark</u>: End of petrol and diesel cars from 2030, and tax reimbursements for home charging stations and at work (2023-2026)

ŮŮ	Population (2022)	5,932,939	10,612,086	5,549,886
	GDP per capita (in USD, 2022)	\$ 67,790	\$ 56,424	\$ 50,872
	Ratio Vehicles / Pop (2022)	0.47	0.47	0.66
	Number of gas stations (2022 / 2050)	2,066 / 1,880	2,700/1,985	1,869/1,026





Stockholm will set up a zero-emission zone by the end of 2024 in part of its center¹ in addition to promotional EV incentives².



Technologies:

2024: **43,200** public EV charging points³ 2030 target: Not announced



Population evolution:

Swedish population will increase from 10.5 million in 2022 to 12.1 million in 2050⁴, meanwhile its urbanization rate will go from 85.5% to 93.2%⁵.

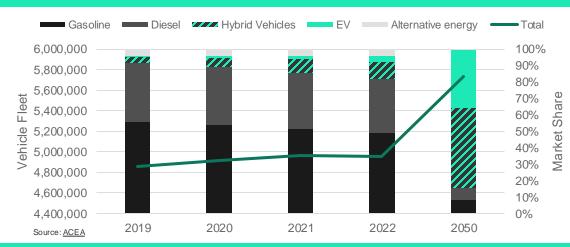


Average distance per car in a year: In 2022, a Swedish car travelled 10,266 km, this distance should decrease to 9,721 km in 2050⁶.

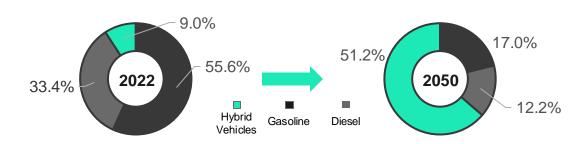


Sources: <u>Urban Access Regulation</u>¹, European Commission (<u>incentives</u>² and <u>summary</u>³), Eurostat (<u>present</u> and <u>projected</u> demographics)⁴, <u>UN</u>⁵, <u>Odvssee-mure</u>⁶

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 4.43 billion

Forecasted volume of fuel sales: 1.93 billion

41





A large low-emission and small zeroemission zones have been introduced in Copenhagen to reduce air pollution¹.



Technologies:

2024: 25,700 public EV charging points² 2030 target: **67,000**3



Population evolution:

Danish population will slightly increase from 5.93 million in 2022 to 6.15 million in 20504, meanwhile its urbanization rate will go from **88.4%** to **92.3%**⁵.

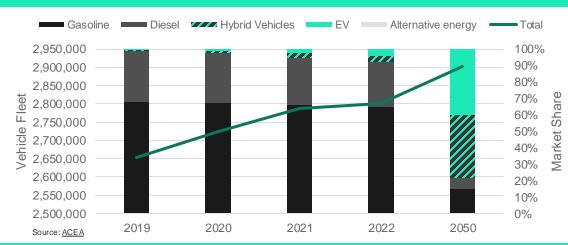


Average distance per car in a year: In 2022, a Danish car travelled 10,266 **km**⁶, this distance should decrease to 9,813 km in 2050.

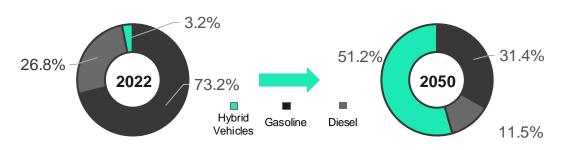
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Sources: Urban Access Regulation 1, European Commission2, DTU3, Eurostat (present and projected demographics)4, UN5, Odvssee-mure

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 2.01 billion

Forecasted volume of fuel sales: 958 million





Low-emission zones¹ as well as discounted to free parking for EVs in certain cities².



Technologies:

2024: **12,700** public EV charging points³ 2030 target: Not announced



Population evolution:

Finnish population will slightly decrease from **5.56 million in 2022** to **5.50 million in 2050**⁴, meanwhile its urbanization rate will go from **85.7%** to **90%**⁵.

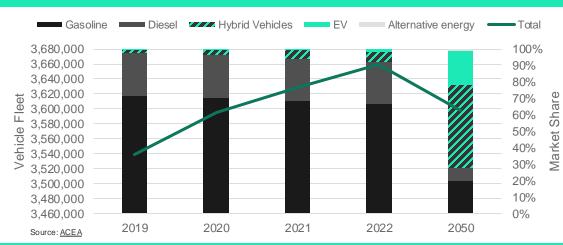


Average distance per car in a year: In 2022, a Finnish car travelled 10,266 km⁶, this distance should decrease to 9,751 km in 2050.

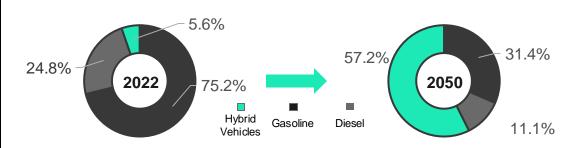


Sources: <u>Urban Access Regulation</u>¹, European Commission (<u>incentives</u>² and <u>summary</u>³), Eurostat (<u>present and projected</u> demographics)⁴, <u>UN⁵, Odyssee-mure</u>⁶

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



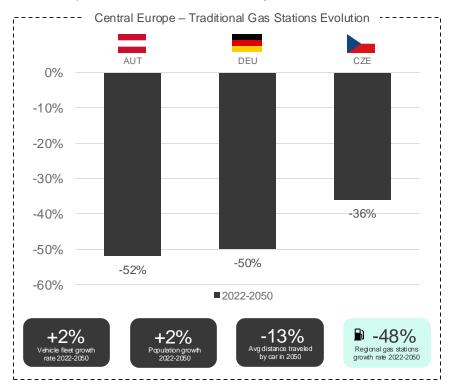
Estimated volume of fuel sales: 2.63 billion

Forecasted volume of fuel sales: 1.56 billion

43

Central Europe – Energy Station Evolution

Traditional service stations activities in Central Europe will all experience significant decline, however they will do so at a different pace: the ones in Germany and Austria will do so drastically, while the ones in Czechia should do so moderately.



^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams.

Influencing factors

- · Shared ambition between the three countries to promote the adoption of EVs.
- Governments aim to reduce gashouse emissions and dependence on fossil fuels through:
 Subsidies, tax incentives, and charging infrastructure benefits for EV users
- Germany is although the only country to have cut out the EV purchase subsidies granted so far, from January 1st, 2024.

Country specific legislations and ambitions

- <u>Germany</u>: 10-year ownership tax exemption for BEVs and FCEVs granted until December 31st, 2030. €130 billion budget for infrastructure development, tax cuts and further subsidies.
- <u>Czech Republic</u>: Registration and annual road tax cut for EVs for private and companies.
 Financial support granted for the purchase of EVs and free parking for EVs-workers in Prague.
- <u>Austria</u>: 100% tax exemption (except VAT) for all EVs. Ownership tax is only paid for the thermal
 motor for PHEVs. Various purchase subsidies applying from 2024 for companies and privates.

î	Population (2022)	9,041,851	83,797,985	10,672,118
ॐ	GDP per capita (in USD, 2022)	\$ 52,084	\$ 48,718	\$ 27,227
®	Ratio Vehicles / Pop (2022)	0.57	0.58	0.60
	Number of gas stations (2022 / 2050)	2,704/1,316	14,771 / 7,193	4,008/2,633





In addition to purchase subsidies for EVs, only the thermal counterpart of hybrid vehicles are submitted to tax payment.¹



Technologies:

2024: **22,049** public EV charging points² 2030 target: Not announced



Population evolution:

Austrian population will increase from 9.04 million in 2022 to 9.53 million in 2050³, meanwhile its urbanization rate will go from 59.3% to 70.9%⁴.

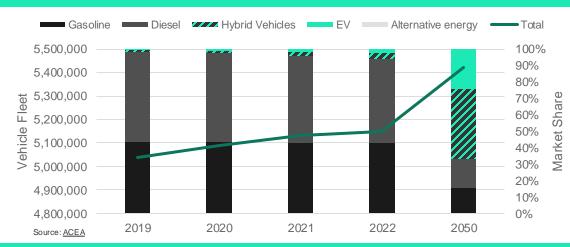


Average distance per car in a year: In 2022, an Austrian car travelled 11,828 km⁵, this distance should decrease to 9,514 km in 2050.

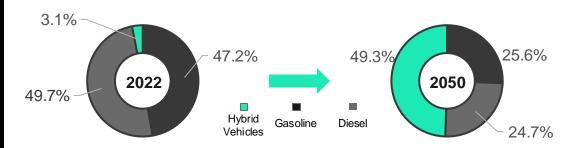
SIAPARTNERS/

Sources: European Commission¹, <u>Austriatech</u>², Eurostat (<u>present</u> and <u>projected</u> demographics)³, UN⁴, Odyssee-mure⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 4.34 billion

Forecasted volume of fuel sales: 2.21 billion





Several cities in Germany have introduced low-emission zones banning vehicles not meeting Euro 5 or 6 emission standards.¹



Technologies:

2024: **130,800** public EV charging points² 2030 target: **a million**³



Population evolution:

German population will slightly increase from **83.8 million in 2022** to **84.8 million in 2050**⁴, meanwhile its urbanization rate will go from **77.6%** to **84.3**%⁵.

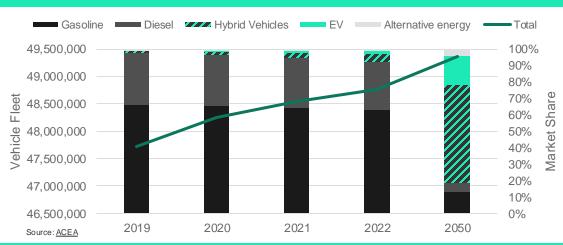


Average distance per car in a year: In 2022, a German car travelled 12,034 km⁶, this distance should decrease to 10,995 km in 2050.

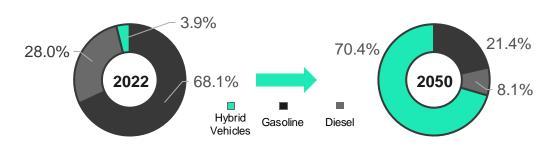


Sources: The German Emissions Sticker¹, European Commission², Nationale Leistelle³, Eurostat (present and projected demographics)⁴, UN⁵, Odvssee-mure⁶

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 42.7 billion

Forecasted volume of fuel sales: 22.9 billion





Non-thermal vehicles benefit from multiple financial benefits such as tax reduction, purchase subsidies or free parking.¹



Technologies:

2024: **5,000** public EV charging points² 2030 target: **35,000**³



Population evolution:

Czech population will decrease from 19 million in 2022 to 16.5 million in 2050⁴, meanwhile its urbanization rate will go from 74.4% to 82.2%⁵.

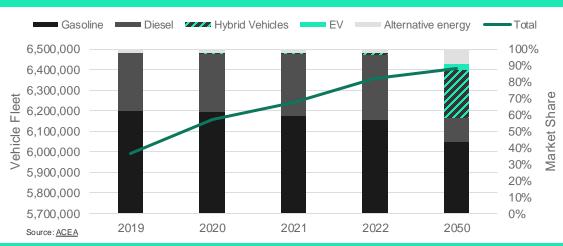


Average distance per car in a year: In 2022, a Czech car travelled 10,266 km⁶, this distance should decrease to 9,190 km in 2050.

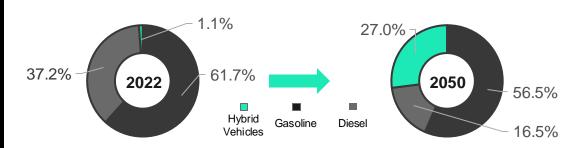


Sources: European Commission (<u>incentives</u>¹ and <u>summary</u>²), <u>Nationale Leistelle</u>², Eurostat (<u>present</u> and <u>projected</u> demographics)⁴, <u>UN</u>⁵, Odvssee-mure[©]

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



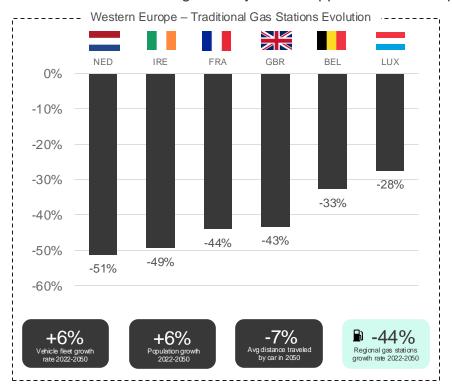
Estimated volume of fuel sales: 4.75 billion

Forecasted volume of fuel sales: 3.17 billion

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Western Europe – Energy Station Evolution

Our research indicates that various fates await traditional gas stations in Western Europe: in the Netherlands, they are forecasted to contract significantly while it appears that their operations could be more sustained in Luxembourg



^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams.

Influencing factors

- Overall, all regions are gradually moving towards promoting EV adoption as part of their efforts to reduce emissions, via reductions for this type of cars in registration, ownership and company taxes
- Except in Belgium, purchase subsidies are proposed in every countries going from 2000€ in Netherlands to 8000€ in Luxembourg (among conditions)
- Except in Netherlands, all countries are trying to increase the use of personal charging stations by giving subsidies for people who want to install their own in their residence (from 1000€ to 2000€ depending on the countries)

نُشُ	Population (2022)	17,700,982	5,165,700	67,508,936
<u>\$</u>	GDP per capita (in USD, 2022)	\$ 57,025	\$ 103,983	\$ 46,125
6	Ratio Vehicles / Pop (2022)	0.50	0.45	0.48
	Number of gas stations (2022 / 2050)	4,135 / 2,020	1,892 / 958	8,365 / 4,581
ůů	Population (2022)	68,065,015	11,680,210	653,103
9	GDP per capita (in USD, 2022)	\$ 40,886	\$ 49,927	\$ 125,006
	Ratio Vehicles / Pop (2022)	0.57	0.51	0.68
	Number of gas stations (2022 / 2050)	11,040 / 6,175	3,119 / 2,097	238 / 172





A lot of major Dutch cities will introduce Emission Zone (Amsterdam, Zero Rotterdam,...) by 2025.1



Technologies:

2024: 154,000 public EV charging points2 2030 target: More than a million3



Population evolution:

Dutch population will slightly increase from 17.7 million in 2022 to 18.7 million in **2050**⁴, meanwhile its urbanization rate will go from **92.9%** to **96.6%**⁵.

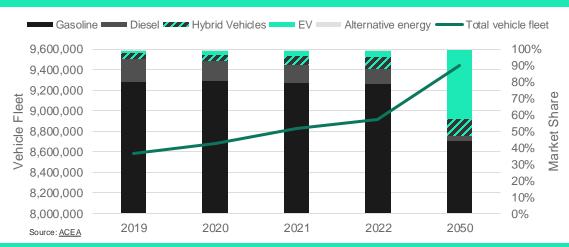


Average distance per car in a year: In 2022, a Dutch car travelled 11,015 km⁶, this distance should decrease to 10,576 km in 2050.

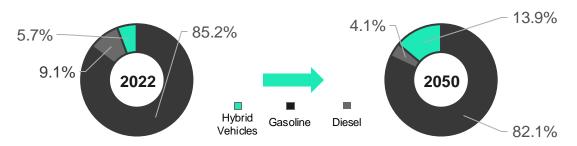


Sources: Neth, Government1, European Commission², CleanTechnica², Eurostat (present and projected demographics)4, UN5, Odvssee-mure6

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 7.14 billion

Forecasted volume of fuel sales:

3.78 billion





Questioning in progress about the sell's ban of new cars for 2030 and Purchase subsidies are offered for types of EVs^{1,2}



Technologies:

2024: **3,000** public EV charging points³ 2030 target: **100,000**⁴



Population evolution:

Irish population will slightly increase from 5.17 million in 2022 to 6.10 million in 2050⁵, meanwhile its urbanization rate will go from 64.2% to 75.1%⁶.

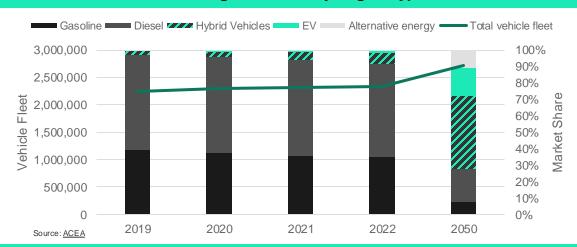


Average distance per car in a year: In 2022, an Irish car travelled 10,266 km⁷, this distance should decrease to 8,523 km in 2050.

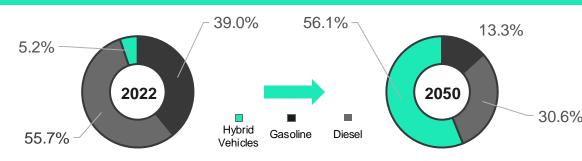


Sources: IrishIndependent, European Commission (Incentives2 and Summany3). Irish Examiner4, Eurostat (present and projected demographics)5, LM5, Odvssee-mure?

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)

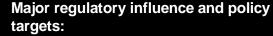


Estimated volume of fuel sales: 1.69 billion

Forecasted volume of fuel sales: 913 million

50





An order voted in 2024 requires manufacturers to sell an increasing percentage of ZEV each year¹

Technologies:

2024: **75,000** public EV charging points² 2030 target: **300,000**³

Population evolution:

UK population will increase from 67.5 million in 2022 to 71.7 million in 2050⁴, meanwhile its urbanization rate will go from 84.4% to 90.2%⁵.

Average distance per car in a year: In 2022, a British car travelled 10,622 km⁶, this distance should decrease to 9,892 km

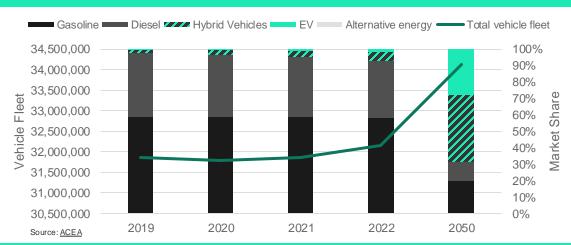
snould decrease to **9,892 km**



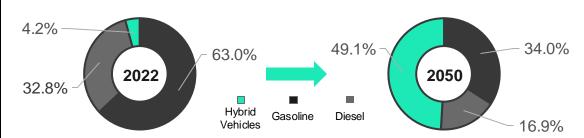
in 2050.

Sources: Autovista¹, European Commission², English Government³, PopulationPyramid (<u>present</u> and <u>projected</u> demographics)⁴, UN⁵, Odvssee-mure⁶

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 24.9 billion

Forecasted volume of fuel sales: 13.9 billion

51





Every year, Low Emission Zones are becoming more selective about vehicles in the biggest cities (Paris, Lyon, Lille,...)¹



Technologies:

2024: **127,500** public EV charging points² 2030 target: **400,000**³



Population evolution:

French population will increase from **68.1** million in 2022 to 70.6 million in 2050⁴, meanwhile its urbanization rate will go from **81.5%** to **88.3%**⁵.

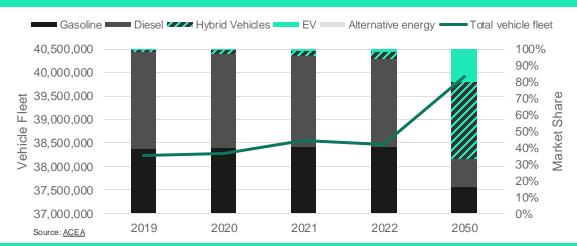


Average distance per car in a year: In 2022, a French car travelled 10,621 km⁶, this distance should decrease to 9,735 km in 2050.

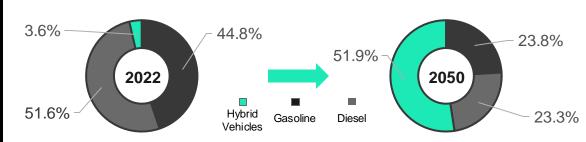


Sources: LEZ zones¹, European Commission², French Government³, Eurostat (present and projected demographics)⁴, UN⁵, Odvssee-mure⁶

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 29.1 billion

Forecasted volume of fuel sales: 17.4 billion

52





Brussel will ban diesel cars by 2030 Reduction or exemption of the circulation taxes for EV^{1,2}



Technologies:

2024: **52,000** public EV charging points³ 2030 target: **125,000**⁴



Population evolution:

Belgian population will slightly increase from 11.7 million in 2022 to 12.6 million in 2050⁴, meanwhile its urbanization rate will go from 98.2% to 98.9%⁵.

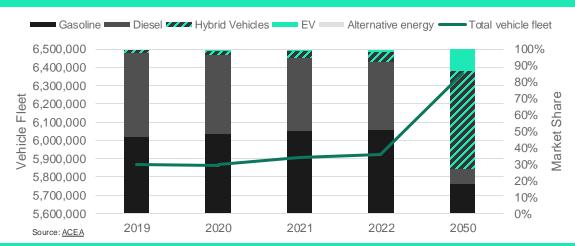


Average distance per car in a year: In 2022, a Belgian car travelled 10,266 km⁶, this distance should decrease to 10,193 km in 2050.

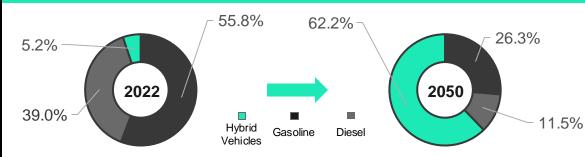


Sources: Reuters!, European Commission (Incentives² and Summary³), US Trade Goy⁴ Eurostat (present and projected demographics)⁴, UN§, Odvssee-mure³

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 4.39 billion

Source: FuelsEurope

Forecasted volume of fuel sales: 3.11 billion





Taxes exemptions and purchase subsidies for EV that are among the biggest in the EU¹.



Technologies:

2024: **2,000** public EV charging points² 2030 target: No announced target



Population evolution:

Luxembourg population will slightly increase from 653k in 2022 to 897k in 2050³, meanwhile its urbanization rate will go from 91.9% to 95.1%⁴.

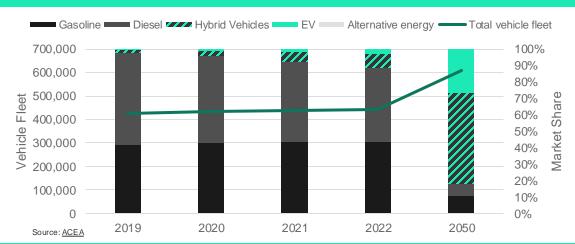


Average distance per car in a year: In 2022, a Luxembourg car travelled 10,266 km⁵, this distance should decrease to 9,909 km in 2050.

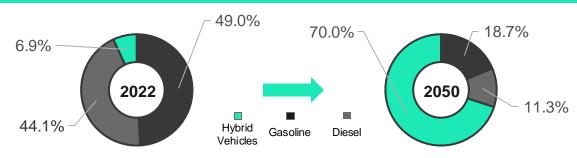
SIAPARTNERS/

Sources: European Commission (Incentives and Summary²), Irish Examinerd: Eurostat (present and projected demographics)³, UN⁴, Odvssee-mure⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



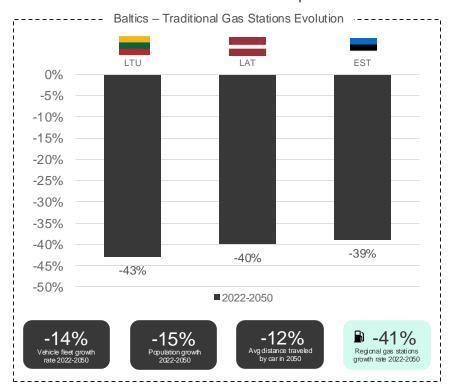
Estimated volume of fuel sales: 321 million

Source: FuelsEurope

Forecasted volume of fuel sales: 240 million

Baltics – Energy Station Evolution

Our research indicates that the fait awaiting traditional gas stations in the Baltic region should be the same for the three countries where their number is expected to decrease.



^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams.

Influencing factors

- Growing recognition of the importance of EVs in reducing emissions, but general disparities among the 3 countries in their ambitions.
- The 3 governments have implemented measures such as tax incentives and reduced registration fees and exemptions from road tolls, while expanding charging infrastructure.

Country specific legislations and ambitions

- <u>Latvia</u>: Tax exemptions for vehicles with less than 50 gCO2/km and grants for buying new and used EVs.
- <u>Lithuania</u>; Grants to buy new and used electric vehicles and road tax reductions for EVs as well as phasing out diesel car sales by 2040.
- Estonia: Aim to have 100,000 EVs on its roads by 2030 and having the highest density of public charging per capita in the world

ŮŮŮ	Population (2022)	2,831,639	1,879,383	1,348,840
	GDP per capita (in USD, 2022)	\$ 25,065	\$ 21,780	\$ 28,247
	Ratio Vehicles / Pop (2022)	0.58	0.41	0.63
			• • • • • • • • • • • • • • • • • • • •	
U	Number of gas stations (2022 / 2050)	765 / 440	600 / 326	515 / 314





Public tenders for converting public fleet into EVs, as well as free parking for BEV/PHEVs in numerous cities¹.



Technologies:

2024: **3,000** public EV charging points² 2030 target: **60,000**³



Population evolution:

Lithuanian population will decrease from **2.83 million in 2022 to 2.34 million in 2050**⁴, meanwhile its urbanization rate will go from **68.5%** to **78.1%**⁵.

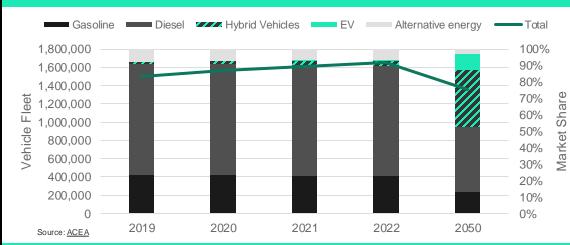


Average distance per car in a year: In 2022, a Lithuanian car travelled 10,266 km⁶, this distance should decrease to 8,827 km in 2050.

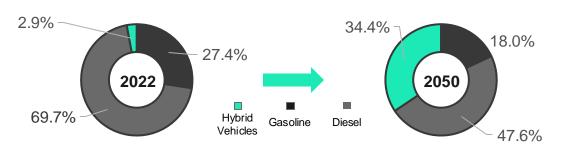
SIAPARTNERS/

Sources: European Commission (incentives' and summary²). CEE nergy², Eurostat (present and projected demographics)⁴, UN⁵, Odvssee-mure⁶

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 1.17 billion

Forecasted volume of fuel sales: 605 million

56





EVs exempt from registration tax and free to circulate on public transport lanes and benefit from free parking in Riga¹.



Technologies:

2024: **700** public EV charging points² 2030 target: Not announced



Population evolution:

Latvian population will decrease from **1.88** million in 2022 to **1.47** million in 2050³, meanwhile its urbanization rate will go from **68.5**% to **75.9**%⁴.

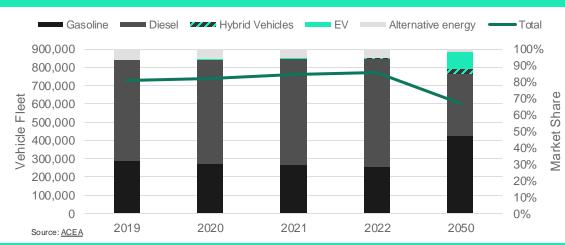


Average distance per car in a year: In 2022, a Latvian car travelled 10,266 km⁵, this distance should decrease to 9,157 km in 2050.

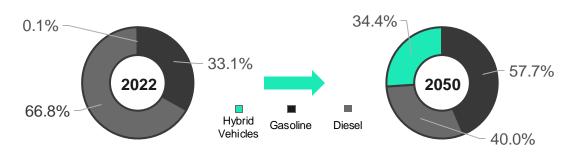
SIAPARTNERS/

Sources: European Commission (<u>incentives</u>¹ and <u>summary</u>²), Eurostat (<u>present</u> and <u>projected</u> demographics)³, UN⁴, Odyssee-mure⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 535 million

Forecasted volume of fuel sales: 314 million

57





EVs benefit from low registration tax and no circulation tax and free parking in designated zones in some municipalities¹.



Technologies:

2024: **500** public EV charging points² 2030 target: Not announced



Population evolution:

Estonian population will slightly decrease from 1.35 million in 2022 to 1.34 million in 2050³, meanwhile its urbanization rate will go from 69.6% to 77.3%⁴.

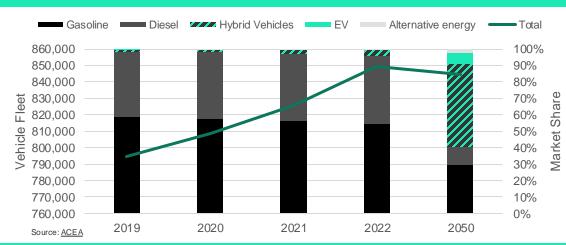


Average distance per car in a year: In 2022, an Estonian car travelled 10,266 km⁵, this distance should decrease to 9,130 km in 2050.

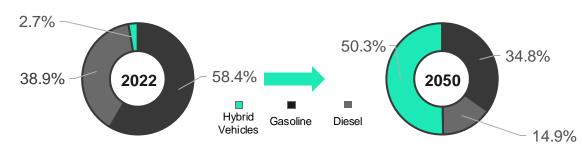
SIAPARTNERS/

Sources: European Commission (<u>incentives</u>¹ and <u>summary</u>²), Eurostat (<u>present</u> and <u>projected</u> demographics)³, <u>UN</u>⁴, <u>Odvssee-mure</u>⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)

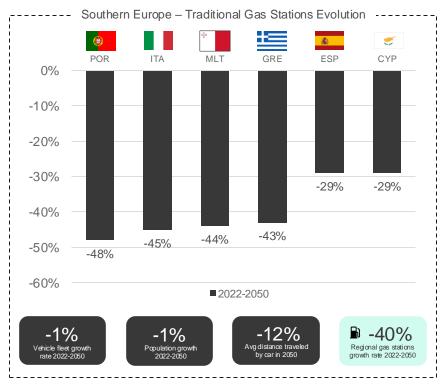


Estimated volume of fuel sales: 641 million

Forecasted volume of fuel sales: 391 million

Southern Europe – Energy Station Evolution

Traditional service stations activities in Southern Europe will all experience significant decline, however they will do so at a different pace: the ones in Italy and Portugal will do so drastically, while the ones in Spain and Cyprus will do so moderately.



^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams.

Influencing factors Overall, all regions are gradually moving towards promoting EV adoption as part of their efforts to reduce emissions, via reductions for this type of cars in registration, ownership and company taxes Purchase subsidies are proposed in every countries with a bigger budget in Spain, Greece, Cyprus and Malta (especially for BEVs and FCEVs) Cyprus and Spain stand out as the most ambitious countries with the biggest Purchase subsidies, minimum rates/no taxes for Ownership and Registration taxes, important development of charging stations Each country have rules applied in their entire territory however Italy has several regions that are applying some differences from the national ones î Population (2022) 10.409.704 59.013.667 531.511 GDP per capita (in USD, 2022) \$ 24,515 \$ 34,776 \$ 34,128 ⇔ Ratio Vehicles / Pop (2022) 0.56 0.68 0.59 Number of gas stations (2022 / 2050) 3.216 / 1.685 21.100 / 12. 016 69/39 ŶŶŶ Population (2022) 10,436,882 47,759,127 912,703 GDP per capita (in USD, 2022) \$ 29.675 \$ 32.048 \$ 20.867 Ratio Vehicles / Pop (2022) 0.51 0.56 0.66 Number of gas stations (2022 / 2050) 12.084 / 8.597 320 / 229 5.889/ 3.384





Complete taxes exemption for EVs with free parking in major cities, LEZ are also present in these cities¹



Technologies:

2024: **9,000** public EV charging points² 2030: **36,000**³



Population evolution:

Portuguese population will decrease from 10.4 million in 2022 to 9.65 million in 2050⁴, meanwhile its urbanization rate will go from 67.4% to 79.3%⁵.

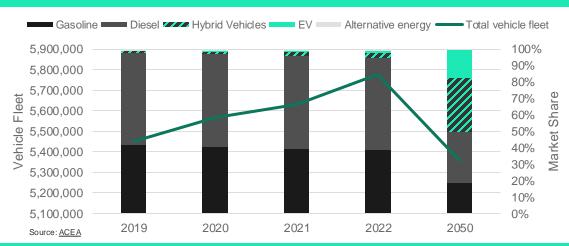


Average distance per car in a year: In 2022, a Portuguese car travelled 9,201 km⁶, this distance should decrease to 7,576 km in 2050.

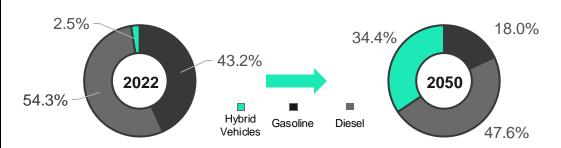


Sources: European Commission (Incentives1, Summary2 and Projection3). Eurostat (present and projected demographics)4, UNF, Odvssee-mure6

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 3.77 billion

Forecasted volume of fuel sales: 1.94 billion

60





A 250M€ budget allocated for BEVs for 3 years with subsidies and taxes exemptions depending on the regions¹



Technologies:

2024: **44,300** public EV charging points² 2030: **110,000**³



Population evolution:

Italian population will decrease from 59 million in 2022 to 57.5 million in 2050⁴, meanwhile its urbanization rate will go from 71.1% to 81.1%⁵.



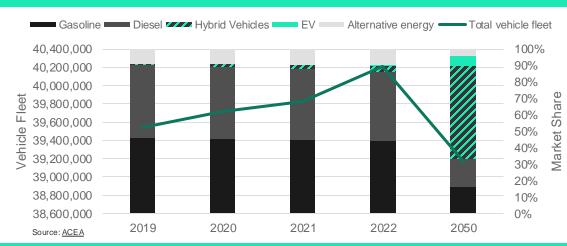
Average distance per car in a year:

An Italian car travelled **7,084 km in 2022**⁶, this distance should decrease to **6,088 km in 2050**.

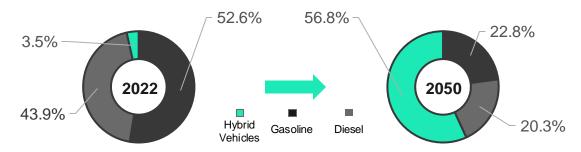


Sources: European Commission (Incentives¹ and Summary²), Mobility. Portal³, Eurostat (present and projected demographics)⁴, UN§, Odvssee-mure®

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 18.8 billion

Forecasted volume of fuel sales: 11.8 billion





Proposes the biggest purchase subsidies in EU for EVs (with Cyprus) with exemption from registration taxes in Valetta¹



Technologies:

2024: **100** public EV charging points² 2030: **6,500**³



Population evolution:

Maltese population will slightly increase from **532k** in **2022** to **744k** in **2050**⁴, meanwhile its urbanization rate will go from **66,9** % to **74.5** %⁵.

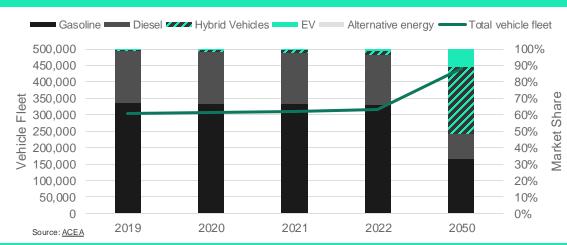


Average distance per car in a year: In 2022, a Maltese car travelled 10,266 km⁶, this distance should decrease to 9,100 km in 2050.

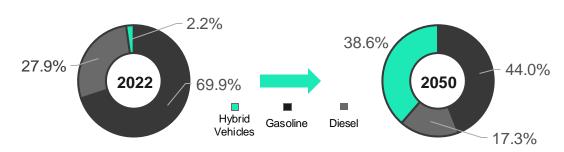


Sources: European Commission (Incentives¹ and Summary²), Newsbook³, Eurostat (present and projected demographics)⁴, UN⁵, Odyssee-mure⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 242 million

Forecasted volume of fuel sales: 212 million





Evs exempted from the registration tax and Hybrids get a reduction, Restriction imposed in cities like Athens for non EVs¹



Technologies:

2024: **4,200** public EV charging points² 2030: No target announced



Population evolution:

Greek population will decrease from 10.4 million in 2022 to 8.96 million in 2022 to 2050³, meanwhile its urbanization rate will go from 80.4 % to 87.7 %⁴.

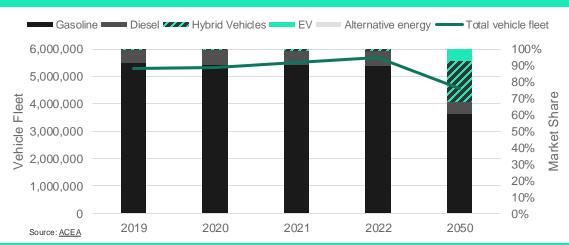


Average distance per car in a year: In 2022, a Greek car travelled 10,266 km⁵ this distance should decrease to 9,334 km in 2050.

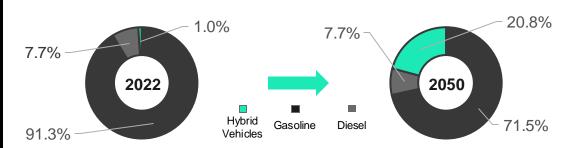
SIAPARTNERS/

Sources: European Commission (Incentives¹ and Summary²), Eurostat (present and projected demographics)³, UN⁴, Odvssee-mure⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 4.55 billion

Forecasted volume of fuel sales: 2.52 billion





A 400M€ budget allocated for BEVs for 3 years with subsidies and taxes exemptions depending on the regions¹



Technologies:

2024: **28,500** public EV charging points² 2030: **250,000-340,000**³



Population evolution:

Spanish population will increase from **47.8** million in 2022 to 50.5 million in 2050⁴, meanwhile its urbanization rate will go from **81.3%** to **88%**⁵.

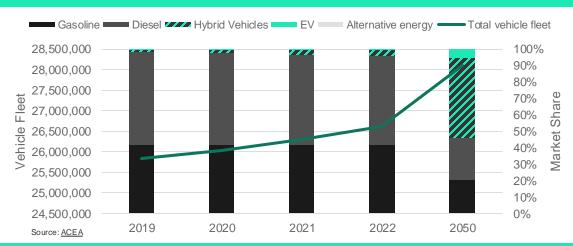


Average distance per car in a year: In 2022, a Spanish car travelled 9,860 km⁶, this distance should decrease to 9,047 km in 2050.

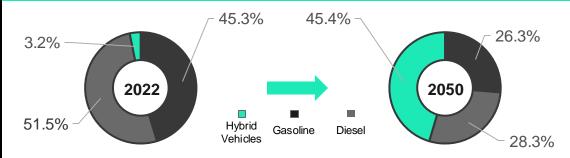


Sources: European Commission (Incentives¹ and Summary²), Empresactima³, Eurostat (present and projected demographics)⁴, UN⁵, Odvssee-mure⁶

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 18.9 billion

Forecasted volume of fuel sales: 13.7 billion





Proposes the biggest purchase subsidies in EU for EVs (with Malta) with exemption from registration taxes for these cars¹



Technologies:

2024: **350** public EV charging points² 2030: No announced target



Population evolution:

Cyprian population will slightly increase from 913k in 2022 to 982k in 2050³, meanwhile its urbanization rate will go from 66.9% to 74.5 %⁴.

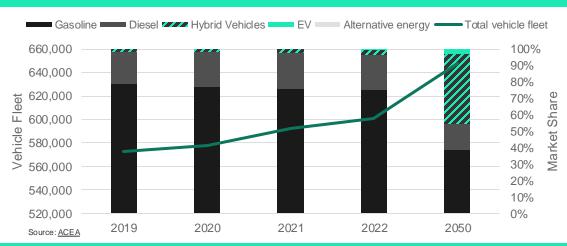


Average distance per car in a year: In 2022, a Cyprian car travelled 10,266 km⁵, this distance should decrease to 9,100 in 2050.

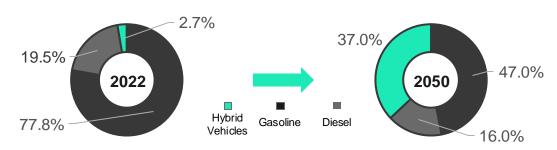


Sources: European Commission (Incentives¹ and Summary²), Eurostat (present and projected demographics)³, UN⁴, Odyssee-mure⁵

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 468 million

Forecasted volume of fuel sales: 340 million

During the next decades, the European traditional gas station market will be deeply challenged and upended by vehicle fleets transformation.

By 2050, low carbon solutions will prevail, tightening fuel sales volume.

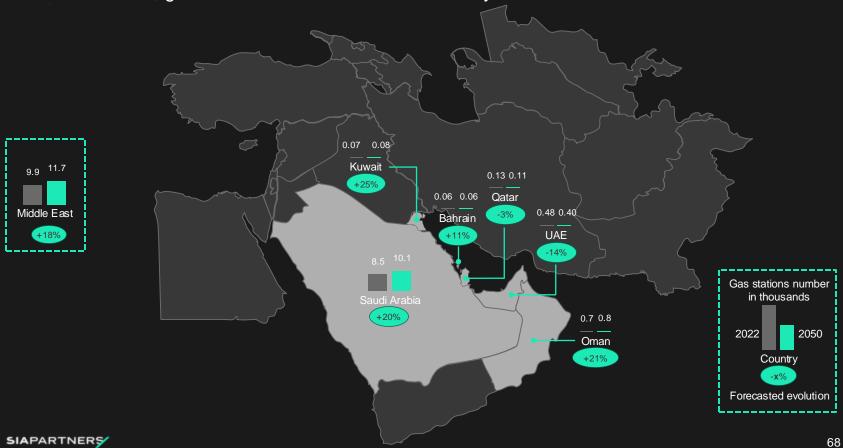
As a result, the volume of traditional gas stations is anticipated to fall by 45%.

Only those which reinvent themselves and become customer-centric will survive.

Middle East

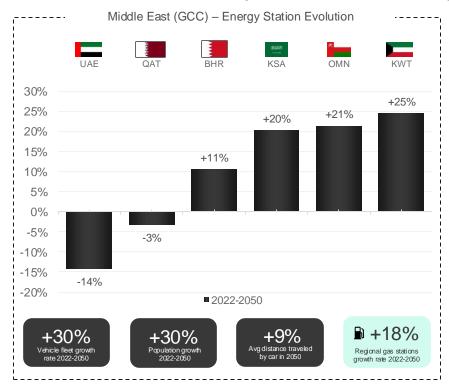
The gas stations market in 2050

In the Middle East, gas stations number should increase by 17% between 2022 and 2050



Middle East – Energy Station Evolution

Our research indicates that traditional gas stations* number in the Middle East GCC countries of the UAE and Qatar are forecasted to contract unless they undertake transformative operating models.



^{*}Traditional gas stations provide diesel and gasoline fuel types as their main revenue streams.

Influencing factors

- Apart from the Emirate of Dubai, no significant regulatory changes have been announced in the region, hence regulatory incentives are not expected to have a significant impact on the adoption of EV or hybrid vehicles.
- Consumer behavior will influence the transition from traditional gasoline and diesel vehicles to EV and hybrid vehicles as more options become available.
- Technology improvements around EVs are anticipated to improve battery lifetime and autonomy, making the product appealing to a wider consumer base.
- The anticipated growing population with a constant ratio of vehicles per person is increasing the vehicle fleet size, allowing ICE cars to remain dominant.

		\$5,00KM		*
ůů	Population (2022)	36,408,820	9,441,128	4,576,298
₽	GDP per capita (in USD, 2022)	\$ 30,448	\$ 53,708	\$ 25,057
	Ratio Vehicles / Pop (2022)	0.21	0.32	0.27
	Number of gas stations (2022 / 2050)	8,517/10,244	477 / 409	676 / 821
			E	
ůů	Population (2022)	4,268,872	2,695,121	1,472,233
ॐ	GDP per capita (in USD, 2022)	\$ 41,080	\$ 87,662	\$ 30,147
\Leftrightarrow	Ratio Vehicles / Pop (2022)	0.46	0.36	0.38
₽3	Number of gas stations (2022 / 2050)	66/82	128 / 124	58 / 64





Consumer behavior:

Low EV and hybrid adoption rate while overall fleet share is increasing (+35% fleet increase from 2022 to 2050)



Externalities:

No externality is expected to have a significant influence by 2050.



Population evolution:

Saudi population will increase from 36.4 million in 2022¹ to 48.4 million in 2050², meanwhile its urbanization rate will go from 84.3% to 90.4%3.

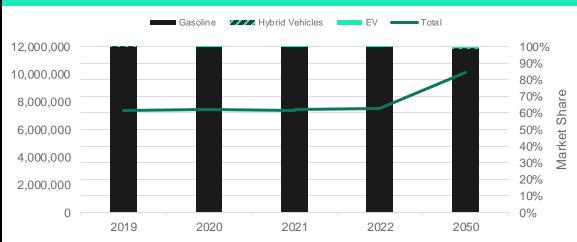


Regulation:

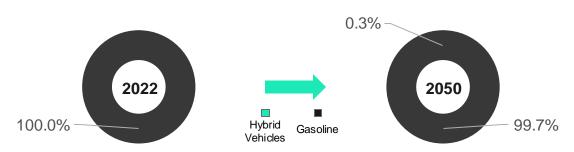
No significant regulatory changes are anticipated to 2050.



Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 9.1 billion

Forecasted volume of fuel sales:

10.7 billion





Consumer behavior:

Low EV and hybrid adoption rate while overall fleet share is increasing (+20% fleet increase from 2022 to 2050)



Externalities:

No externality is expected to have a significant influence by 2050.



Population evolution:

Emirati population will increase from **9.4** million in 2022¹ to 11.4 million in 2050°, meanwhile its urbanization rate will go from **87**% to **92.4**%³.



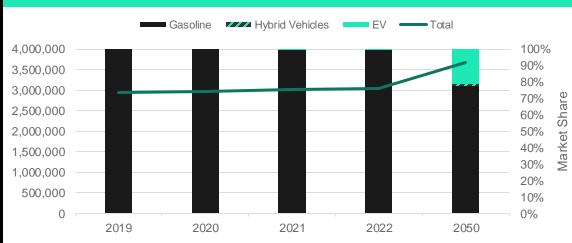
Regulation:

No significant regulatory changes are anticipated to 2050.

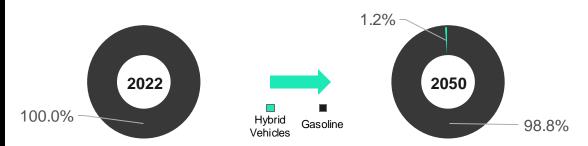
SIAPARTNERS Sources: 2050°), V

Sources: Population Pyramid (2022¹ and 2050²), World Urbanization³

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 3.7 billion

Forecasted volume of fuel sales: 3.1 billion





Consumer behavior:

Low EV and hybrid adoption rate while overall fleet share is increasing (+38% fleet increase from 2022 to 2050)



Externalities:

No externality is expected to have a significant influence by 2050.



Population evolution:

Omani population will increase from 4.6 million in 2022¹ to 6.3 million in 2050², meanwhile its urbanization rate will go from 86.3% to 94.9%3.



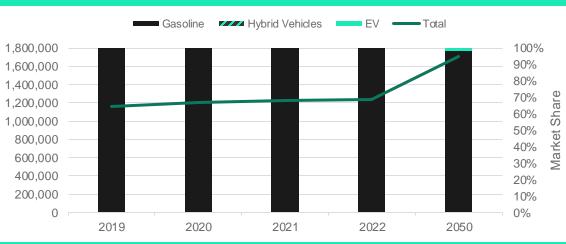
Regulation:

No significant regulatory changes are anticipated to 2050.

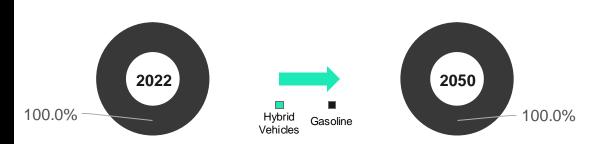
SIAPARTNERS

Sources: Population Pyramid (20221 and 20502). World Urbanization3

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 1.5 billion

Forecasted volume of fuel sales:

1.7 billion





Consumer behavior:

Low EV and hybrid adoption rate while overall fleet share is increasing (+22% fleet increase from 2022 to 2050)



Externalities:

No externality is expected to have a significant influence by 2050.



Population evolution:

Kuwaiti population will slightly increase from 4.3 million in 20221 to 5.2 million in **2050**°, meanwhile its urbanization will stay constant at 100%3.



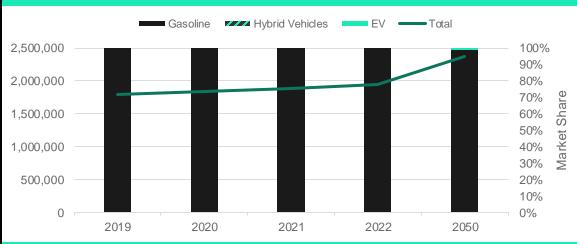
Regulation:

No significant regulatory changes are anticipated to 2050.

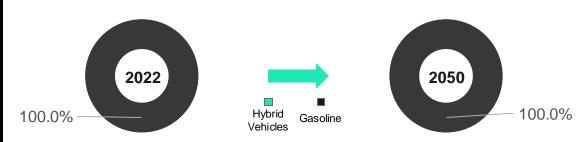
SIAPARTNERS

Sources: Population Pyramid (20221 and 20502), World Urbanization3

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 2.4 billion

Forecasted volume of fuel sales:

2.7 million





Consumer behavior:

Low EV and hybrid adoption rate while overall fleet share is increasing (+24% fleet increase from 2022 to 2050)



Externalities:

No externality is expected to have a significant influence by 2050.



Population evolution:

Qatari population will slightly decrease from **2.7 million in 2022**¹ to **3.4 million in 2050**², meanwhile its urbanization rate will go from **99.2%** to **99.7%**³.



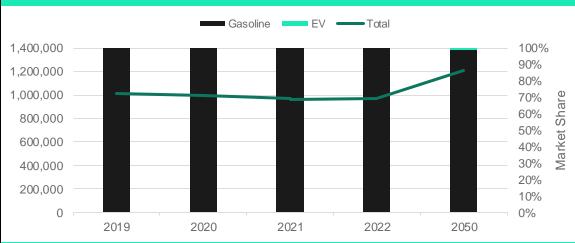
Regulation:

No significant regulatory changes are anticipated to 2050.

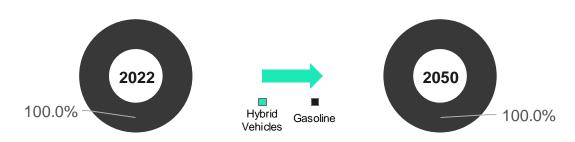
Sources: P 2050°), Wo

Sources: Population Pyramid (2022¹ and 2050²), World Urbanization³

Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 819.1 million

Forecasted volume of fuel sales: 854.5 million





Consumer behavior:

Low EV and hybrid adoption rate while overall fleet share is increasing (+23% fleet increase from 2022 to 2050)



Externalities:

No externality is expected to have a significant influence by 2050.



Population evolution:

Bahraini population will slightly increase from **1.5 million in 2022**¹ to **1.8 million in 2050**², meanwhile its urbanization rate will go from **89.5**% to **93.2**%³.

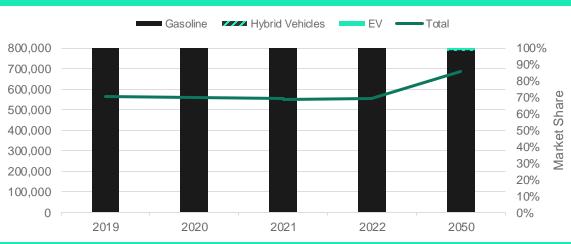


Regulation:

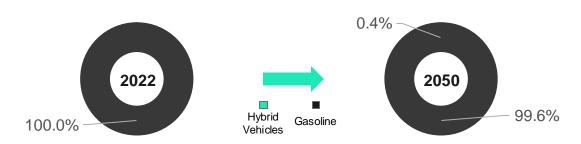
No significant regulatory changes are anticipated to 2050.

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Passenger car fleet by engine type



Aggregate fuel sales per engine type (in liters)



Estimated volume of fuel sales: 672.7 million

Forecasted volume of fuel sales: 743.1 million

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During the next decades, the GCC countries will be less challenged than other regions to transform traditional gas stations.

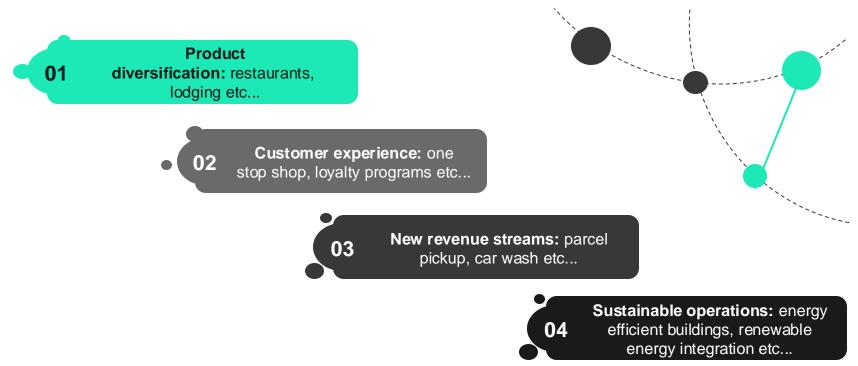
Indeed, the number of traditional gas stations is anticipated to increase by 18% in the region.

Nonetheless, by 2050, low carbon vehicle availability and technology will increase and the market will need to adapt to provide green fueling options to these consumers.

Only those which reinvent themselves to become customer-centric will survive.

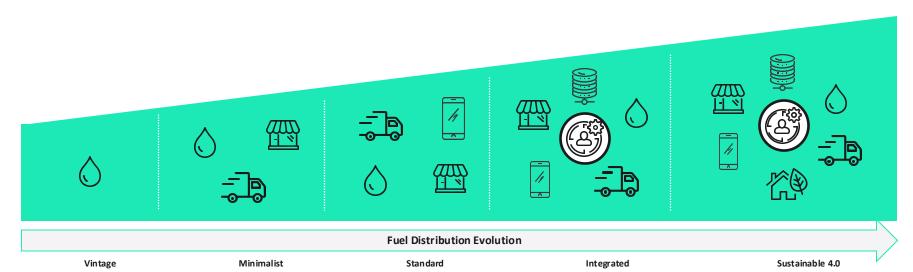
II. Target Operating Model

Our framework to ensure a successful and fit-for-purpose Digital Transformation follows the below 4-steps path



Energy Station Evolution in the Age of Hyper transformation

Fuel retail businesses have been undergoing significant evolution over the past years, with a major shift from fuel revenue to non-fuel revenue, underpinned by companies' ability to understand client preferences and monetize from there.



Remote Gas Stations:

- Fuel distribution only
- Regulatory commitment

Urban Convenience Stores:

- Fuel pumps
- Parcel pickup
- Low entry convenience store items

Self-Service Fuel Stations:

- Silver Standard
- Parcel pickup
- Convenience store items
- Car wash or tires or fluid checks
- Balance focus between fuel supply and services

Full-Service Stations:

- Gold Standard
- Pleasant experience
- Restaurants, lodging, others
- Extra services (fluid, wash, tires, etc.)
- ERP, CRM, Loyalty program, others
- Focus on services is greater than fuel ylqque

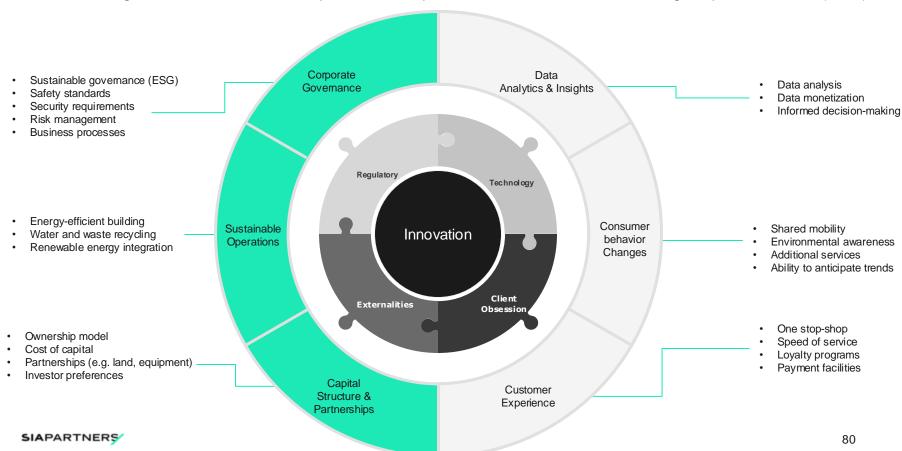
Single integrated place for consumer:

- Platinum Standard
- Customer Obsession
- One-stop-shop approach
- Hyper automated with data monetization
- Dinner and shopping experience
- Focus shift from fuel supply to services



Energy Stations Target Operating Model Framework

For traditional gas stations to survive, companies should put innovation as a core of their Target Operation Model (TOM)

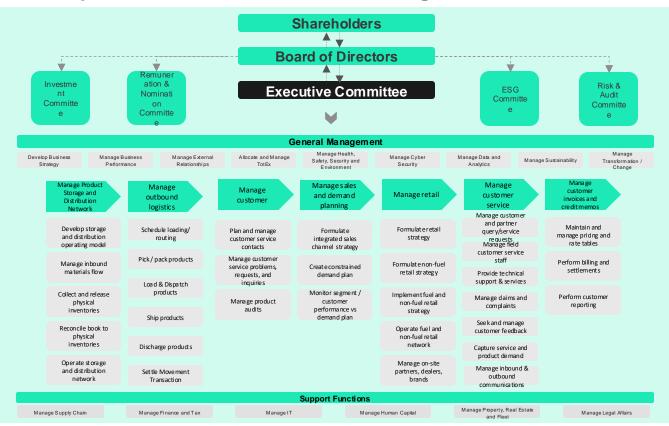


Calibrating your strategy and operating model with agility and innovation

Our approach to strategy will be matched with the diverse business environments according to the strategy spectrum.

Standards	Corporate Governance	Data Analytics & Insights	Consumer Behavior Adaptation	Customer Experience	Capital Structure	Sustainable Operations
Vintage ★	Lack of clarity Safety Governance	N/A	N/A	Inexistant or disaggregated initiatives	Local portfolio Local partnerships Family-Owned Business JODO	Reactive to regulation Minimum tracking on metrics
Minimalist ★★	There's recognition of the need for governance improvement	Inexistant or manual insights	Inexistant or manual insights	Convenience stores with a limited range of products And services. No loyalty programs	Local portfolio Local partnerships Family-Owned Business JODO / DODO	Basic awareness of sustainability Compliance with relevant regulations and industry standards
Standard ★★★	Clearly defined Safety Governance Security Governance	POC towards inventory management	POC towards inventory management	Conscious of non-fuel revenue and high margin products as critical metrics	Predominantly local portfolio DODO CODO Franchises	Defined sustainability goals and targets Regular monitoring and reporting Continuous improvement
Integrated ★★★	Clearly defined ESG Framework Innovation and agility are integrated into governance	Inventory management, demand planning and first insights of customer preferences	EV charging points High quality and clean facilities Wide range of extra services Digital solutions implementation	Extra services & Customer Support Advanced loyalty programs Low entry Restaurants and recreational facilities	Regional portfolio Regional partnerships Joint venture models CODO & Franchises	ESG quality certification Recycling initiatives Water protection measures
Sustainable 4.0 ★★★★	Clearly defined ESG Framework Innovation and agility are integrated into govemance Robust Governing documents	Predictive analytics AI & machine leaming Data monetization Data-Driven strategy	EV charging points Low carbon fuels Ride-sharing facilities Integrated extra services offer Digital solutions implementation	Partnerships as part of Operating model Dinner & Shopping Experience Advanced loyalty programs Engaging digital experience (e- payments.)	Global portfolio Global partnershps Joint venture models CODO & Franchises	ESG quality certification Green building Smart waste management Recycling strategy Water protection measures

Corporate Governance & Risks Management



Key Drivers for Risk Management



Sustainable Governance

- Transition to Alternative Fuels
- Emissions Reduction Measures
- Hazardous Materials Handling



Safety Governance

- Infrastructure Upgrades
- Emergency Preparedness
- Spill containment systems and fire suppression systems



Security Governance

- Increased Surveillance and Monitoring
- Access Control and Authentication
- Cybersecurity Measures



Corporate Governance



Sustainable Governance

Transition to Alternative Fuels:

Environmental policies promoting the reduction of GHG emissions are pushing traditional gas stations to transition to alternative fuels such as ethanol blends, biodiesel or renewable diesel.

Emissions Reduction Measures:

Stricter emissions standards on gas stations require the implementation of measures to minimize air and water pollution. For example: upgrading equipment to reduce vapor emissions during fueling and installing pollution control devices.

Hazardous Materials Handling:

Environmental regulations govern the handling of hazardous materials such as fuel and lubricants. Therefore, implementing spill containment measures, upgrading storage tanks and installing leak detection systems might be required.



Safety Standards

Infrastructure Upgrades:

Improved fuel storage tanks, spill containment systems and fire suppression systems. These upgrades enhance safety for both employees and customers.

Emergency Preparedness:

Safety standards typically mandate emergency response plans and equipment at gas stations. This could involve training staff in emergency procedures, providing fire extinguishers and first aid kits, and having protocols in place for addressing fuel spills or other accidents. Improved emergency preparedness enhances overall safety and can mitigate potential risks.



Security Requirements

Increased Surveillance and Monitoring:

Gas stations may need to implement more advanced surveillance systems including CCTV cameras, motion sensors and possibly even drones for aerial monitoring. These systems would help deter criminal activity such as theft, vandalism and fraud.

Access Control and Authentication:

Gas stations may adopt stricter access control measures to ensure only authorized personnel are able to enter sensitive areas such as fuel storage facilities or cash handling areas. This could involve biometric authentication systems or keycard access.

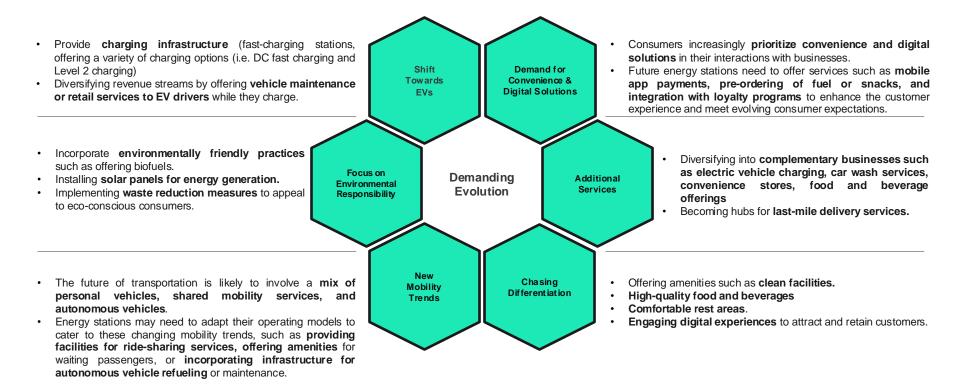
Cybersecurity Measures:

With the increasing digitization of gas station operations, cybersecurity becomes paramount to protect against cyber threats such as hacking, data breaches or ransomware attacks. Gas stations will need to invest in robust cybersecurity solutions to safeguard customer data, financial transactions and critical infrastructure.



Customer behavior Drivers

Shifting consumer preferences and behaviors redefine the operational landscape of energy stations, driving the need for innovative adaptations and streamlines strategies





Sustainable Operations Drivers

Sustainable operations revolutionize energy station operating models, integrating renewable energy sources, efficient resource management and eco-conscious practices to minimize environmental impact while maximizing profitability.

Energy Efficiency and Renewable Energy Integration Future enery stations are likely to prioritize energy efficiency and integrate renewable energy sources into their operations. This may involve installing solar panels on the station's roof to generate clean electricity, using energy-efficient LED lighting, and implementing smart energy management systems to optimize energy usage. These initiatives reduce the station's carbon footprint, lower operating costs, and demonstrate a commitment to environmental sustainability.

Alternative Fuels and Electric Vehicle Charging Infrastructure As the automotive industry shifts towards EVs and alternative fuels, future energy stations will need to adapt their offerings accordingly. They may install EV charging stations, hydrogen fueling stations or biofuel pumps to cater eco-conscious consumers. This requires investments in infrastructure, equipment and training to support the adoption of clean transportation technologies.

Waste Management and Recycling

Sustainable energy stations will implement comprehensive waste management and recycling programs to minimize waste generation and promote resource conservation. This may involve segregating and recycling waste materials such as plastics, paper, glass and oil, as well as implementing composting facilities for organic waste. Additionally, energy stations may expbre innovative solutions for repurposing or upcycling waste materials to create value-added products.

Green Building Design and Construction

Future energy stations will embrace green building principles and sustainable construction practices to minimize environmental impacts and enhance operational efficiency. This may include using eco-friendly building materials, designing energy-efficient building layouts, and incorporating natural ventilation and daylighting strategies. Green building certifications such as Leadership in Energy and Environmental Design (LEED) may be pursued to validate the station's commitment to sustainability.

Water Conservation and Management Sustainable energy stations will implement measures to conserve water resources and minimize water wastage in their operations. This may involve installing water-efficient fixtures and appliances, implementing rainwater harvesting systems, and adopting water recycling and reuse technologies. By reducing water consumption and promoting responsible water management practices, energy stations can contribute to environmental conservation efforts.

Customer Experience Enhancement Drivers

Optimizing customer experience will contribute to the transformation of energy station operational framework, the streamlining of service delivery and the fostering of loyalty-driven growth.

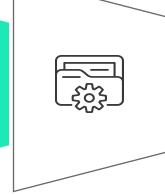
Customer Service & Support

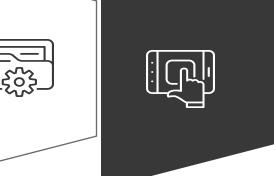
Broad lines of services minimize customer wait times. Offering a customer feedback survey to gather customer opinions and to build on their feedback.

Employee Training & Engagement

Empowering employees to take ownership of the customer experience and providing incentives for delivering outstanding service can further enhance customer satisfaction









Loyalty Programs & Rewards

Customers collect points for purchases to exchange for cashback or free products. Offer increasing rewards as customers climb a "loyalty ladder".

Service Design

Integrating convenience stores with a wider range of products, implementing efficient and user-friendly fueling systems, and providing amenities such as EV charging stations, car wash services, and clean restrooms.

Technology & Innovation

Implementing mobile apps for payment and loyalty programs, self-service options for fueling and item purchase, and advanced analytics to personalize offerings based on customer preferences and behavior.



Capital Structure and Partnerships Drivers

Capital structure and partnerships sculpt the operational blueprint of energy stations, defining efficiency and growth trajectories.

Ownership model

Types of commercial arrangements vary from region to region, independent trading companies more active on fuel retail.



DODO: Dealer-Owned, Dealer-Operated: Dealers own the retail outlet and operate independently, purchasing fuel from wholesalers or directly from oil companies



CODO: Company-Owned, Dealer-Operated: Fuel retail outlet is owned by the oil company but operated by an independent dealer



JODO: Jobber-Owned, Dealer-Operated: Jobbers, who are wholesale distributors, own the fuel retail outlet but an independent dealer operate it.



FRANCHISES: Dealers operate under franchise agreements with major fuel companies allowing them to use company brandling and access their supply chain in exchange for royalties or fees.

Partnerships

Premium location higher upside for additional revenue streams



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One of the key cost drivers for pricing and profitability



Equipment

Fuel Dispensers | Underground Storage Tanks | Point of Sales (POS) | Canopy | Operations & Security System

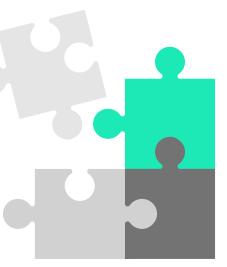


Fuel, products and Inventory

Owned by the Oil Company | Owned by Dealer/Owner | Owned by Wholesale/Supplier



Convenience Stores Non-fuel revenue stream Partnerships



WACC*

Country risk, local regulation and foreign exchange (forex) exposure are a few drivers that will define the capital structure and commercial arrangements

Cost of equity





Regulatory risk

Cost of debt



Liquidity risk

Country risk





Forex exposure

Portfolio management

End-to-end value chain opportunities through greenfield and brownfield initiatives

Local



Market consolidation stage
Low risk appetite for expansion

Regional



Risk appetite for expansion Active M&A portfolio management Medium-mature operating model

Global



Top tier integrated energy companies Full fledge operating model



Data Analytics and Insights Drivers

Unlocking the power of data analytics redefines energy station operations by driving informed-based decisions, streamlined processes, and superior service.



Data Monetization

Energy stations can monetize their data by leveraging insights to develop new revenue streams beyond traditional fuel sales.

- Partner with third-party vendors to offer targeted advertising opportunities based on customer profiles and purchase history.
- Sell anonymized data to market research firms, insurance companies, or urban planners seeking insights into consumer behavior, traffic patterns, and transportation trends.
- Explore opportunities to diversify product offerings by integrating adjacent services such as electric vehicle charging stations, car wash facilities or convenience stores with data-driven inventory management.



Informed Decision-Making

Energy stations can leverage data analytics to optimize various aspects of operations including inventory management, fuel pricing and staffing.

- Replenish fuel supplies by analyzing historical sales data, customer trends and external factors.
- Adjust pricing strategies to remain competitive.
- Schedule staff shifts based on peak demand periods raised by data analysis.

This optimization can lead to improved efficiency, reduced costs, and increased profitability.



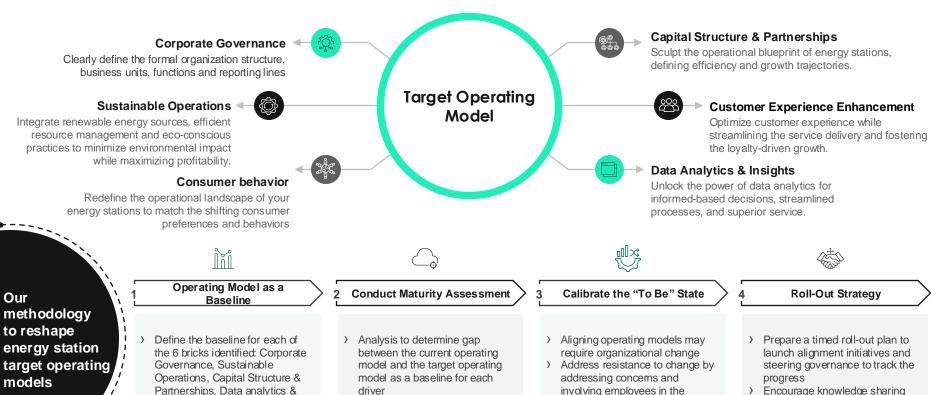
Data Analysis

Energy stations can analyze data to optimize marketing, sales and customer trend.

- Analyze transaction data and customer demographics to personalize promotions and loyalty programs to incentivize repeat visits and increase customer satisfaction.
- Data-driven insights can inform decisions about store layout, product placement and amenities to create a more pleasant and convenient shopping experience for customers.



Proposed Methodology to Reshape Energy Station Target Operating Models



alignment process

Insights, Consumer behavior

Changes, and Customer

Experience

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and understanding of each

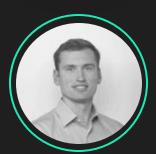
model's alignment

other's perspectives about the

Meeting the Team



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