

North America Fuel Cell Market 2021-2031 by Product (PEMFC, PAFC, SOFC, MCFC, DMFC, AFC), Capacity (200 Kw or below, above 200 Kw), Application (Stationary, Transportation, Portable), End User, and Country: Trend Forecast and Growth Opportunity

<https://marketpublishers.com/r/N0F4A6437551EN.html>

Date: July 2022

Pages: 111

Price: US\$ 2,363.00 (Single User License)

ID: N0F4A6437551EN

Abstracts

North America fuel cell market is projected to grow by 19.6% annually in the forecast period and reach \$5,216.9 million by 2031, driven by the increasing need for clean power generation, stringent norms on greenhouse gas (GHG) emission across the globe, increasing R&D grants and government incentives, and the mounting environmental concerns and expanding urbanization.

Highlighted with 37 tables and 43 figures, this 111-page report “North America Fuel Cell Market 2021-2031 by Product (PEMFC, PAFC, SOFC, MCFC, DMFC, AFC), Capacity (200 Kw or below, above 200 Kw), Application (Stationary, Transportation, Portable), End User, and Country: Trend Forecast and Growth Opportunity” is based on comprehensive research of the entire North America fuel cell market and all its sub-segments through extensively detailed classifications. Profound analysis and assessment are generated from premium primary and secondary information sources with inputs derived from industry professionals across the value chain. The report is based on studies on 2018-2021 and provides forecast from 2022 till 2031 with 2021 as the base year. (Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

In-depth qualitative analyses include identification and investigation of the following aspects:

Market Structure

Growth Drivers

Restraints and Challenges

Emerging Product Trends & Market Opportunities

Porter's Fiver Forces

The trend and outlook of North America market is forecast in optimistic, balanced, and conservative view by taking into account of COVID-19 and Russia-Ukraine conflict. The balanced (most likely) projection is used to quantify North America fuel cell market in every aspect of the classification from perspectives of Product, Capacity, Application, End User, and Country.

Based on Product, the North America market is segmented into the following sub-markets with annual revenue (\$ mn), capacity (MW), and volume (units) for 2021-2031 included in each section.

Proton Exchange Membrane Fuel Cell (PEMFC)

Phosphoric Acid Fuel Cell (PAFC)

Solid Oxide Fuel Cell (SOFC)

Molten Carbonate Fuel Cell (MCFC)

Direct Methanol Fuel Cell (DMFC)

Alkaline Fuel Cell (AFC)

Other Fuel Cells

Based on Capacity, the North America market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Small Scale (Up to 200 Kw)

Large Scale (Above 200 Kw)

By Application, the North America market is segmented into the following sub-markets with annual revenue (\$ mn), capacity (MW), and volume (units) for 2021-2031 included in each section.

Stationary

Transportation

Portable

By End User, the North America market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Transportation

Utilities & Government/Municipal Institutes

Residential

Commercial & Industrial

Data Centers

Military & Defense

Geographically, the following national/local markets are fully investigated:

U.S.

Canada

Mexico

For each key country, detailed analysis and data for annual revenue (\$ mn) are available for 2021-2031. The breakdown of national markets by Product, Capacity and Application over the forecast years are also included.

The report also covers current competitive scenario and the predicted trend; and profiles key vendors including market leaders and important emerging players.

Selected Key Players:

Ballard Power Systems Inc.

Bloom Energy Corp.

Ceres Power Holdings PLC

Cummins Inc.

Doosan Fuel Cell America, Inc.

FuelCell Energy Inc.

Horizon Fuel Cell Technologies Pte. Ltd.

Hydrogenics Corporation

Intelligent Energy Limited

Mitsubishi Hitachi Power Systems Ltd.

Nedstack Fuel Cell Technology BV

Nuvera Fuel Cells Inc. (Nuvera Fuel Cells LLC)

Panasonic Corporation

Plug Power Inc.

PowerCell Sweden AB

SFC Energy AG

Toshiba Energy Systems & Solutions Corporation

(Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

Contents

1 INTRODUCTION

- 1.1 Industry Definition and Research Scope
 - 1.1.1 Industry Definition
 - 1.1.2 Research Scope
- 1.2 Research Methodology
 - 1.2.1 Overview of Market Research Methodology
 - 1.2.2 Market Assumption
 - 1.2.3 Secondary Data
 - 1.2.4 Primary Data
 - 1.2.5 Data Filtration and Model Design
 - 1.2.6 Market Size/Share Estimation
 - 1.2.7 Research Limitations
- 1.3 Executive Summary

2 MARKET OVERVIEW AND DYNAMICS

- 2.1 Market Size and Forecast
 - 2.1.1 Impact of COVID-19 on World Economy
 - 2.1.2 Impact of COVID-19 on the Market
- 2.2 Major Growth Drivers
- 2.3 Market Restraints and Challenges
- 2.4 Emerging Opportunities and Market Trends
- 2.5 Porter's Fiver Forces Analysis

3 SEGMENTATION OF NORTH AMERICA MARKET BY PRODUCT

- 3.1 Market Overview by Product
- 3.2 Proton Exchange Membrane Fuel Cell (PEMFC)
- 3.3 Phosphoric Acid Fuel Cell (PAFC)
- 3.4 Solid Oxide Fuel Cell (SOFC)
- 3.5 Molten Carbonate Fuel Cell (MCFC)
- 3.6 Direct Methanol Fuel Cell (DMFC)
- 3.7 Alkaline Fuel Cell (AFC)
- 3.8 Other Fuel Cells

4 SEGMENTATION OF NORTH AMERICA MARKET BY CAPACITY

- 4.1 Market Overview by Capacity
- 4.2 Small Scale (Up to 200 Kw)
- 4.3 Large Scale (Above 200 Kw)

5 SEGMENTATION OF NORTH AMERICA MARKET BY APPLICATION

- 5.1 Market Overview by Application
- 5.2 Stationary
- 5.3 Transportation
- 5.4 Portable

6 SEGMENTATION OF NORTH AMERICA MARKET BY END USER

- 6.1 Market Overview by End User
- 6.2 Transportation
- 6.3 Utilities & Government/Municipal Institutes
- 6.4 Residential
- 6.5 Commercial & Industrial
- 6.6 Data Centers
- 6.7 Military & Defense

7 NORTH AMERICA MARKET 2021-2031 BY COUNTRY

- 7.1 Overview of North America Market
- 7.2 U.S.
- 7.3 Canada
- 7.4 Mexico

8 COMPETITIVE LANDSCAPE

- 8.1 Overview of Key Vendors
- 8.2 New Product Launch, Partnership, Investment, and M&A
- 8.3 Company Profiles
 - Ballard Power Systems Inc.
 - Bloom Energy Corp.
 - Ceres Power Holdings PLC
 - Cummins Inc.
 - Doosan Fuel Cell America, Inc.

FuelCell Energy Inc.
Horizon Fuel Cell Technologies Pte. Ltd.
Hydrogenics Corporation
Intelligent Energy Limited
Mitsubishi Hitachi Power Systems Ltd.
Nedstack Fuel Cell Technology BV
Nuvera Fuel Cells Inc. (Nuvera Fuel Cells LLC)
Panasonic Corporation
Plug Power Inc.
PowerCell Sweden AB
SFC Energy AG
Toshiba Energy Systems & Solutions Corporation
RELATED REPORTS

List Of Tables

LIST OF TABLES

Table 1. Snapshot of North America Fuel Cell Market in Balanced Perspective, 2021-2031

Table 2. World Economic Outlook, 2021-2031

Table 3. Pricing Trend of Lithium-ion Battery, USD per kWh, 2016-2031

Table 4. Main Product Trends and Market Opportunities in North America Fuel Cell Market

Table 5. Comparison of Fuel Cell Products

Table 6. North America Fuel Cell Market by Product, 2021-2031, Revenue (\$ mn)

Table 7. North America Fuel Cell Market by Product, 2021-2031, Capacity (MW)

Table 8. North America Fuel Cell Market by Product, 2021-2031, Volume (units)

Table 9. North America Fuel Cell Market by Product: Proton Exchange Membrane Fuel Cell (PEMFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 10. North America Fuel Cell Market by Product: Phosphoric Acid Fuel Cell (PAFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 11. North America Fuel Cell Market by Product: Solid Oxide Fuel Cell (SOFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 12. North America Fuel Cell Market by Product: Molten Carbonate Fuel Cell (MCFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 13. North America Fuel Cell Market by Product: Direct Methanol Fuel Cell (DMFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 14. North America Fuel Cell Market by Product: Alkaline Fuel Cell (AFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 15. North America Fuel Cell Market by Product: Other Fuel Cells, 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 16. North America Fuel Cell Market by Capacity, 2021-2031, \$ mn

Table 17. North America Fuel Cell Market by Application, 2021-2031, Revenue (\$ mn)

Table 18. North America Fuel Cell Market by Application, 2021-2031, Capacity (MW)

Table 19. North America Fuel Cell Market by Application, 2021-2031, Volume (units)

Table 20. North America Fuel Cell Market by by Application: Stationary, 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 21. North America Fuel Cell Market by by Application: Transportation, 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 22. North America Fuel Cell Market by by Application: Portable, 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 23. North America Fuel Cell Market by End User, 2021-2031, \$ mn

Table 24. North America Fuel Cell Market by Country, 2021-2031, \$ mn

Table 25. Funding for Fuel Cell Technology in U.S., 2020

Table 26. U.S. Fuel Cell Market by Product, 2021-2031, \$ mn

Table 27. U.S. Fuel Cell Market by Capacity, 2021-2031, \$ mn

Table 28. U.S. Fuel Cell Market by Application, 2021-2031, \$ mn

Table 29. Canada Fuel Cell Market by Product, 2021-2031, \$ mn

Table 30. Canada Fuel Cell Market by Capacity, 2021-2031, \$ mn

Table 31. Canada Fuel Cell Market by Application, 2021-2031, \$ mn

Table 32. Mexico Fuel Cell Market by Product, 2021-2031, \$ mn

Table 33. Mexico Fuel Cell Market by Capacity, 2021-2031, \$ mn

Table 34. Mexico Fuel Cell Market by Application, 2021-2031, \$ mn

Table 35. Ballard Power Systems Inc.: Company Snapshot

Table 36. Ballard Power Systems Inc.: Business Segmentation

Table 37. Ballard Power Systems Inc.: Product Portfolio

List Of Figures

LIST OF FIGURES

Figure 1. A Block Diagram of a Fuel Cell

Figure 2. Research Method Flow Chart

Figure 3. Bottom-up Approach and Top-down Approach for Market Estimation

Figure 4. North America Market Forecast in Optimistic, Conservative and Balanced Perspectives, 2021-2031

Figure 5. Industry Value Chain Analysis

Figure 6. North America Fuel Cell Market, 2021-2031, \$ mn

Figure 7. Impact of COVID-19 on Business

Figure 8. Primary Drivers and Impact Factors of North America Fuel Cell Market

Figure 9. World Electric Vehicle Market, 2019-2030, \$ bn

Figure 10. Primary Restraints and Impact Factors of North America Fuel Cell Market

Figure 11. Investment Opportunity Analysis

Figure 12. Porter's Five Forces Analysis of North America Fuel Cell Market

Figure 13. Breakdown of North America Fuel Cell Market by Product, 2021-2031, % of Revenue

Figure 14. North America Addressable Market Cap in 2022-2031 by Product, Revenue (\$ mn) and Share (%)

Figure 15. Breakdown of North America Fuel Cell Market by Product, 2021-2031, % of Capacity

Figure 16. North America Addressable Market Cap in 2022-2031 by Product, Capacity (MW) and Share (%)

Figure 17. Breakdown of North America Fuel Cell Market by Product, 2021-2031, % of Volume

Figure 18. North America Addressable Market Cap in 2022-2031 by Product, Volume (units) and Share (%)

Figure 19. Breakdown of North America Fuel Cell Market by Capacity, 2021-2031, % of Sales Revenue

Figure 20. North America Addressable Market Cap in 2022-2031 by Capacity, Value (\$ mn) and Share (%)

Figure 21. North America Fuel Cell Market by Capacity: Small Scale (Up to 200 Kw), 2021-2031, \$ mn

Figure 22. North America Fuel Cell Market by Capacity: Large Scale (Above 200 Kw), 2021-2031, \$ mn

Figure 23. Breakdown of North America Fuel Cell Market by Application, 2021-2031, % of Sales Revenue

Figure 24. North America Addressable Market Cap in 2022-2031 by Application, Revenue (\$ mn) and Share (%)

Figure 25. Breakdown of North America Fuel Cell Market by Application, 2021-2031, % of Capacity

Figure 26. North America Addressable Market Cap in 2022-2031 by Application, Capacity (MW) and Share (%)

Figure 27. Breakdown of North America Fuel Cell Market by Application, 2021-2031, % of Volume

Figure 28. North America Addressable Market Cap in 2022-2031 by Application, Volume (units) and Share (%)

Figure 29. Breakdown of North America Fuel Cell Market by End User, 2021-2031, % of Revenue

Figure 30. North America Addressable Market Cap in 2022-2031 by End User, Value (\$ mn) and Share (%)

Figure 31. North America Fuel Cell Market by End User: Transportation, 2021-2031, \$ mn

Figure 32. North America Fuel Cell Market by End User: Utilities & Government/Municipal Institutes, 2021-2031, \$ mn

Figure 33. North America Fuel Cell Market by End User: Residential, 2021-2031, \$ mn

Figure 34. North America Fuel Cell Market by End User: Commercial & Industrial, 2021-2031, \$ mn

Figure 35. North America Fuel Cell Market by End User: Data Centers, 2021-2031, \$ mn

Figure 36. North America Fuel Cell Market by End User: Military & Defense, 2021-2031, \$ mn

Figure 37. Breakdown of North America Fuel Cell Market by Country, 2021 and 2031, % of Revenue

Figure 38. Contribution to North America 2022-2031 Cumulative Market by Country, Value (\$ mn) and Share (%)

Figure 39. Funding by Hydrogen and Fuel Cell Technologies Office (HFTO)

Figure 40. U.S. Fuel Cell Market, 2021-2031, \$ mn

Figure 41. Canada Fuel Cell Market, 2021-2031, \$ mn

Figure 42. Fuel Cell Market in Mexico, 2021-2031, \$ mn

Figure 43. Growth Stage of North America Fuel Cell Industry over the Forecast Period

I would like to order

Product name: North America Fuel Cell Market 2021-2031 by Product (PEMFC, PAFC, SOFC, MCFC, DMFC, AFC), Capacity (200 Kw or below, above 200 Kw), Application (Stationary, Transportation, Portable), End User, and Country: Trend Forecast and Growth Opportunity

Product link: <https://marketpublishers.com/r/N0F4A6437551EN.html>

Price: US\$ 2,363.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/N0F4A6437551EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970