



**CEARÁ**  
GOVERNO DO ESTADO

# CEARÁ

HOME TO GREEN  
HYDROGEN IN BRAZIL

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# WHY CEARÁ?

North ►  
America

Central ►  
America

South ►  
America

◀ Europe

◀ Africa

**TECHNOLOGY HUB**

**(16 SUBMARINE CABLES – OPTIC CABLES)**

**LOGISTICS HUB**

**(CIPP, TRANSNORDESTINA, MUCURIBE PORT)**

**AIR HUB**

**(FLIGHTS TO US AND EUROPE EVERY WEEK)**

**POTENCIAL FOR WIND AND SOLAR ENERGY**

**1,363.2 TWh/y**

**LEADING STATE IN BRAZIL IN PUBLIC INVESTMENT**



# **RENEWABLE ENERGIES: SOLAR**

**INSTALLED CAPACITY:  
9 POWER PLANTS = 219 MW**

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**CONTRACTED CAPACITY:  
74 POWER PLANTS = +2.601 MW**





# **RENEWABLE ENERGIES: WIND**

**INSTALLED CAPACITY:  
94 POWER PLANTS = 2.395 MW**

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**CONTRACTED CAPACITY:  
9 POWER PLANTS = +238 MW**

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**OFFSHORE: 6 PARKS IN THE  
LICENSING STAGE**





An aerial photograph of a coastal city, likely Fortaleza, Brazil. The image shows a dense urban area with various buildings, including several tall skyscrapers, situated inland. A wide, sandy beach runs along the coast, dotted with numerous beach umbrellas and palm trees. The ocean is visible on the right side of the image, with waves breaking onto the shore. The overall scene is bright and sunny, with clear blue skies and vibrant colors.

# **DESALINATION PLANT**

**LARGEST IN BRAZIL**

**BASE FOR WATER  
SECURITY IN CEARÁ**

**CONSTRUCTION START: 2021**



# **PECÉM INDUSTRIAL AND PORT COMPLEX**



**FIRST EXPORT PROCESSING  
ZONE IN BRAZIL**

**STRATEGIC LOCATION  
FOR EXPORT AND IMPORT**

**PARTNERSHIP WITH THE PORT OF ROTTERDAM,  
THE LARGEST IN EUROPE  
READY TO OPERATE WITH GREEN HYDROGEN**



# STRUCTURING THE GREEN HYDROGEN HUB IN CEARÁ

Hydrogen H<sub>2</sub>  
zero emission

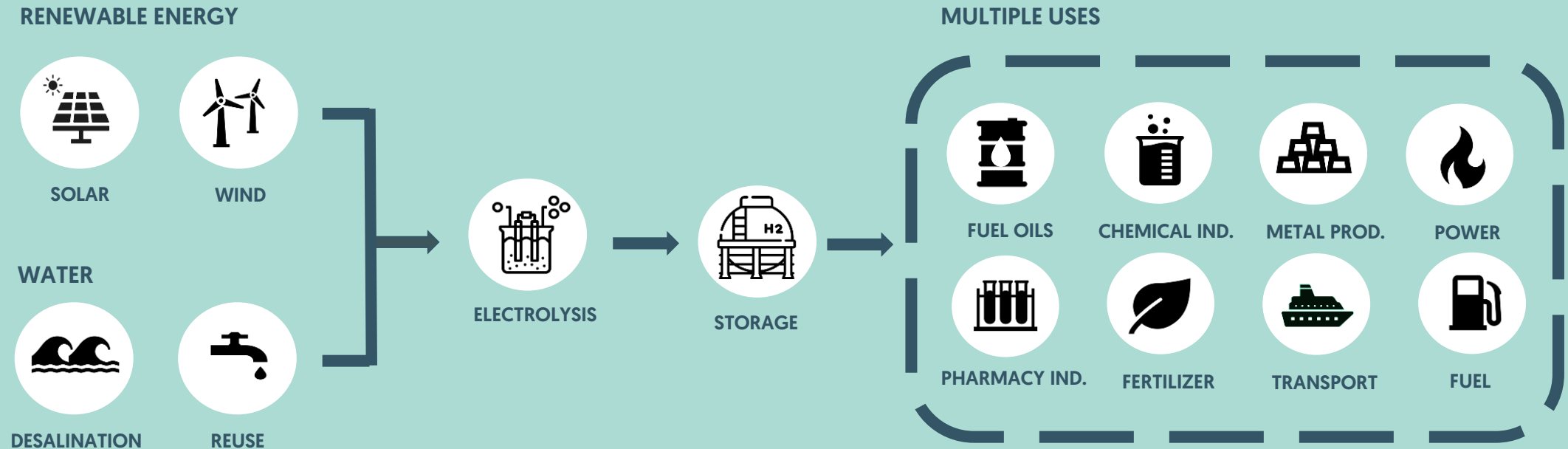
H<sub>2</sub> GENERATION IN CEARÁ: ESTIMATED CAPACITY  
OF 40 GW UNTIL 2050

AGREEMENTS SIGNED WITH THE MAIN WORLD PLAYERS

PILOT PLANT OF THE 1st STATION IN BRAZIL  
SCHEDULED TO OPERATE IN 2022

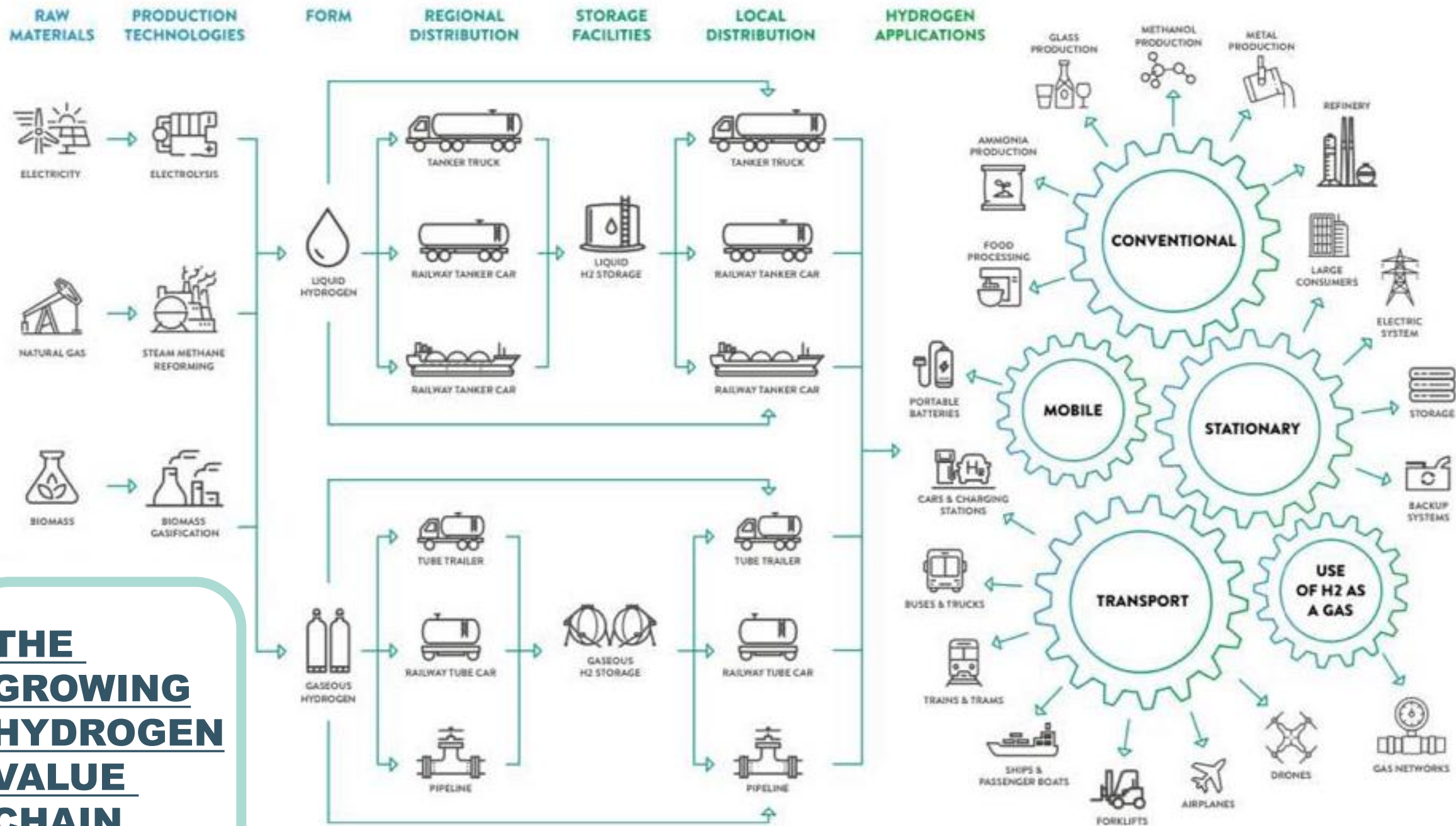
# GREEN HYDROGEN

ENERGY OF THE FUTURE, GENERATED BY CLEAN & RENEWABLE SOURCES





# THE GROWING HYDROGEN VALUE CHAIN



SOURCE: WORLD HYDROGEN SUMMIT 2022



**AGREEMENTS SIGNED WITH CEARA STATE**  
**GOVERNMENT**





# **CHALLENGES**



**REGULATORY ENVIRONMENT**

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**DEMAND GUARANTEE**

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**SCIENCE AND INNOVATION**

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**PRODUCTION EFFICIENCY**

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**SCALABILITY**



# INCLUSIVE BASIC INCOME

FAMILY INCOME GENERATION  
PROGRAM

DISTRIBUTED GENERATION OF  
SOLAR ENERGY

40GW OF INSTALLED CAPACITY  
COULD END POVERTY IN THE  
STATE







# CEARÁ

PREPARED TO GENERATE  
THE ENERGY OF THE FUTURE  
WIND, SUN, SEA, AND THE IDEAL  
ENVIRONMENT FOR  
GOOD BUSINESS





**CEARÁ**  
GOVERNO DO ESTADO

ADVANCING  
TOGETHER,  
**THE WORK  
DOESN'T STOP**