

Definitions & cautionary note

The New Lens Scenarios are part of an ongoing process used in shell for 40 years to challenge executives' perspectives on the future business environment. We base them on plausible assumptions and quantification, and they are designed to stretch management to consider even events that may be only remotely possible. Scenarios, therefore, are not intended to be predictions of likely future events or outcomes and investors should not rely on them when making an investment decision with regard to Royal Dutch Shell plc securities.

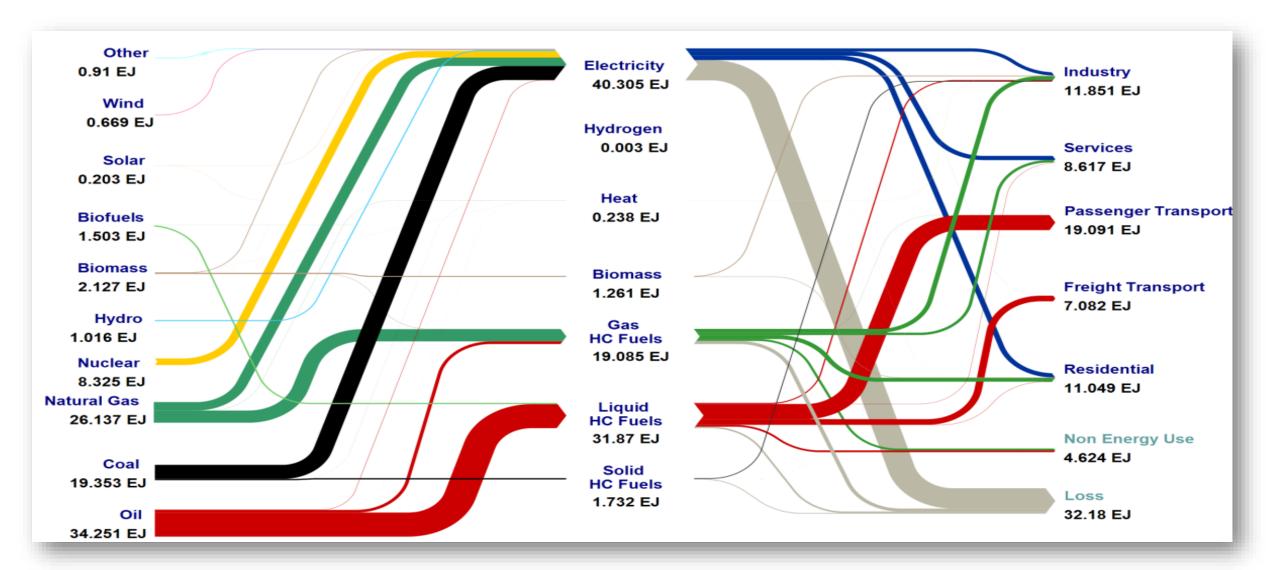
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disclosure in our Form 20-F, File No 1-32575, available on the SEC website www.sec.gov. You can also obtain this form from the SEC by calling 1-800-SEC-0330.

Energy transitions are nothing new: The U.S. energy system, late 1800s

The energy system in the US (95 EJ) in the 21st century



Projected Energy Future in 2050



Population

9 billion people,75% living in cities(2 billion more than today)



2 billion vehicles (currently 800 million)



Rising standards

Many millions of people will rise out of energy poverty; with higher living standards energy use rises



Energy demand could double from its level in 2000...but CO₂ emissions must be half today's to avoid serious climate change



Twice as efficient, using half the energy to produce each dollar of wealth

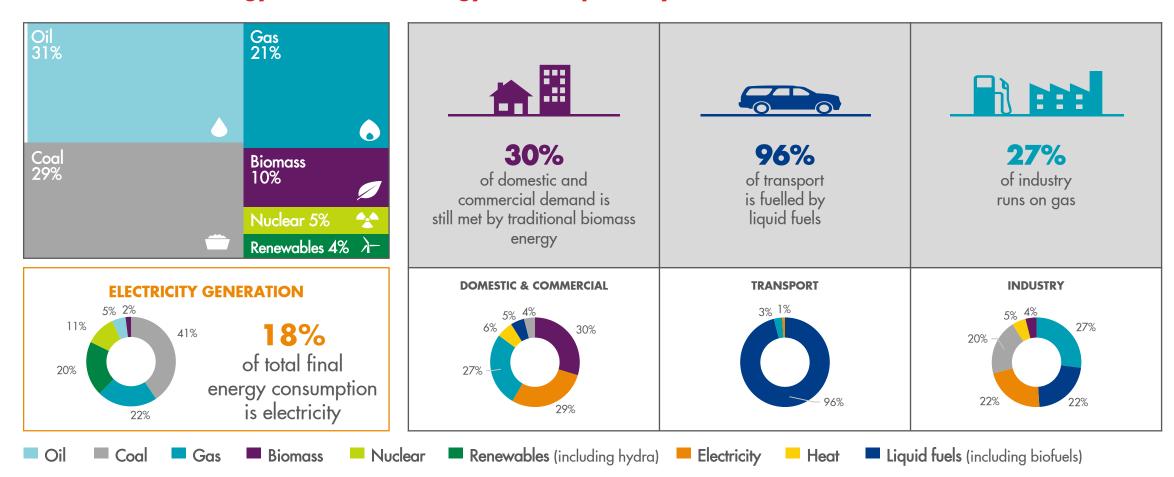


4 times more energy from renewable sources

Today's Energy Mix

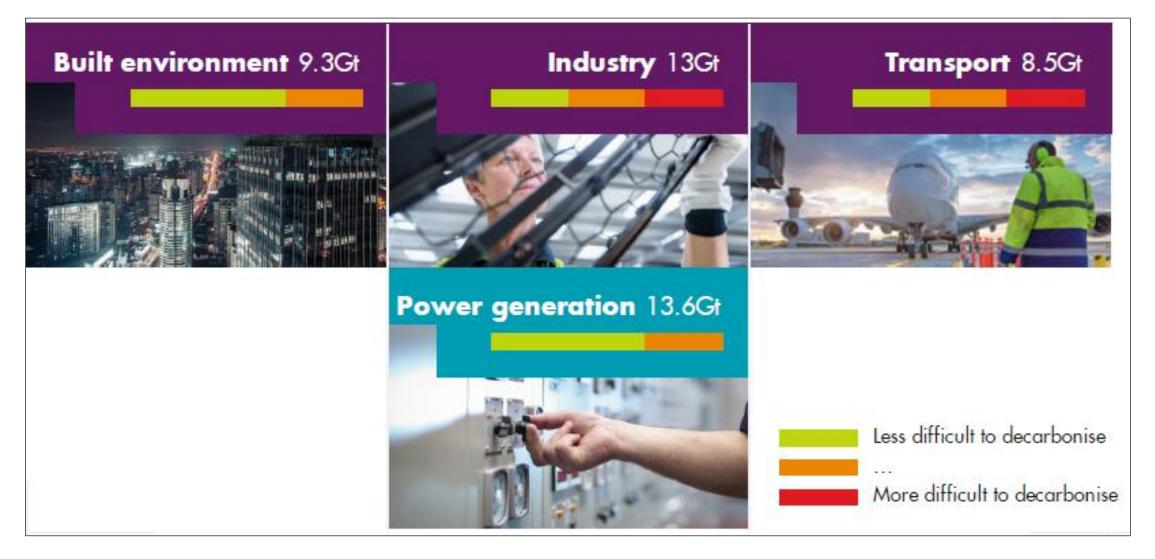
Current Global Energy Demand

Energy Consumption by Sector and Consumer Trends



Source: International Energy Agency, Key world energy statistics 2015 and World energy outlook 2015.

The Pace of Energy Decarbonization will vary by Industry Sector



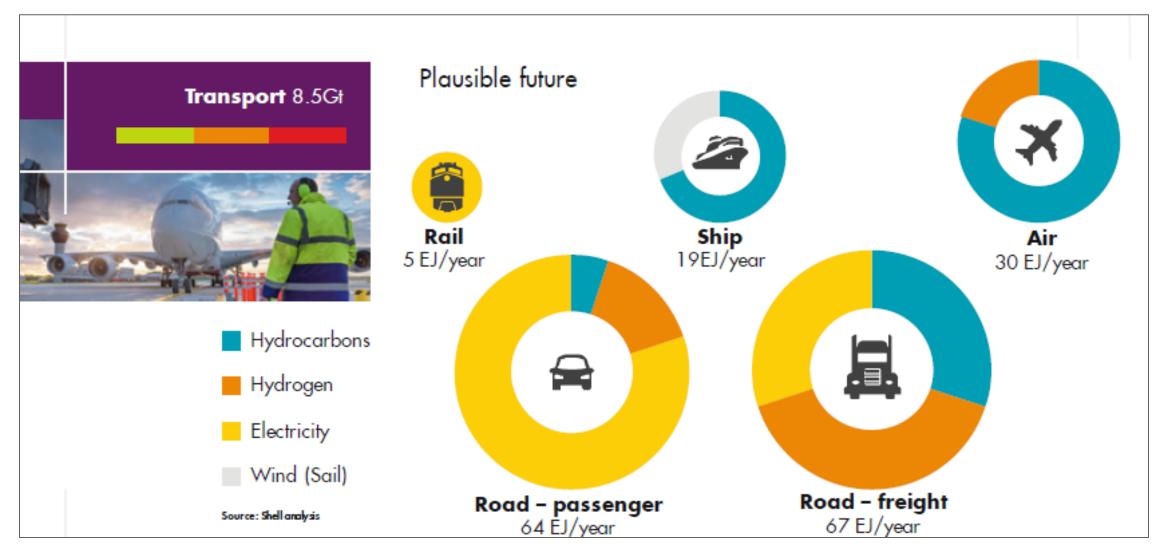
Existing infrastructure will impact the pace of decarbonization

Average infrastructure turnover in years

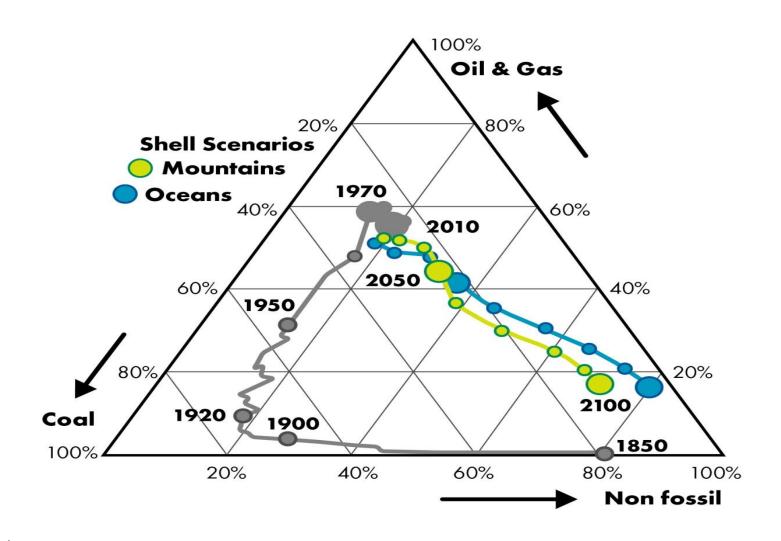


Source: HIS Energy © 2015 (Illustrations sourced from Shutterstock by HS)

Aviation, Shipping & Long Distance Transport will still need Liquid Fuels

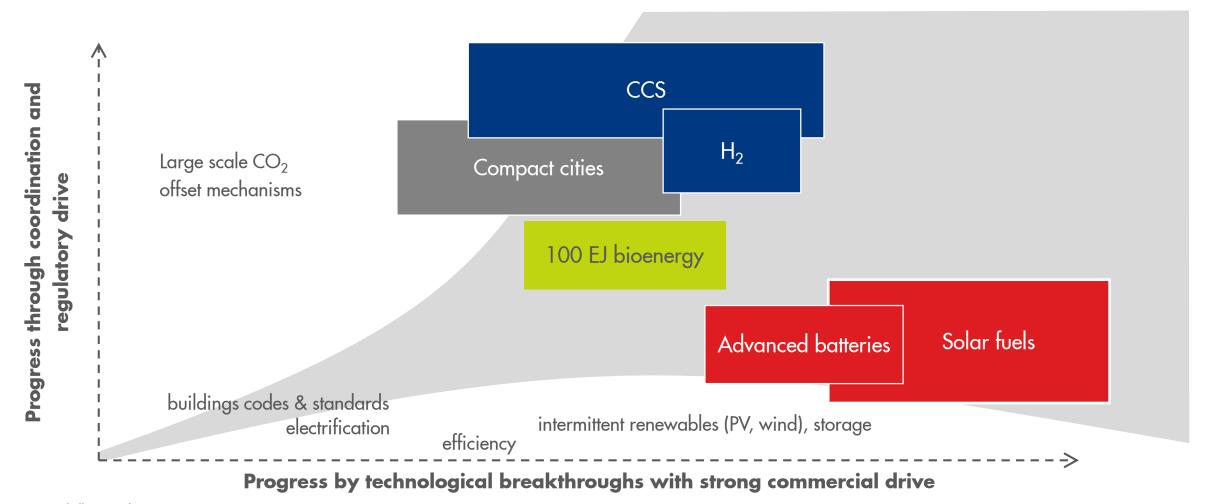


The Energy Transition Coming Full Circle in the Near Future



Policy coordination vs technology

A journey to net-zero emissions



Source: Shell FET analysis

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Long Range Research (LRR) – Back to Basics and Fundamental R&D



New Energy

 Develop a radically better <u>energy carrier</u> using low cost solar energy combined with novel technologies for <u>energy storage</u> and conversion

Chemicals

Find new pathways to convert <u>methane to products</u>

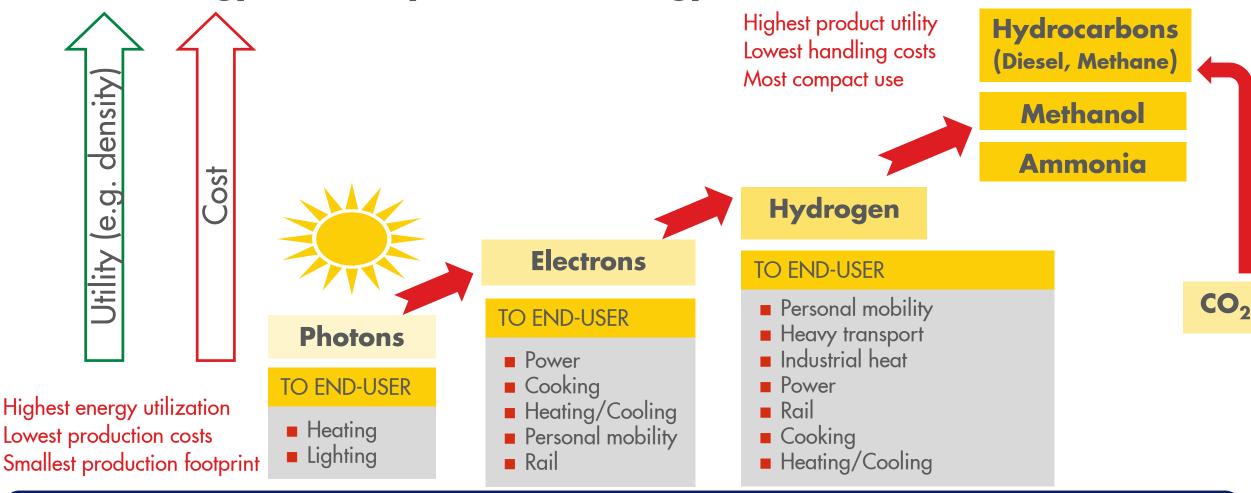


Enabling sciences

- Electrochemistry
- Materials science
- Structured catalysts & interfacial phenomena
- Transport phenomena
- Computational material science & chemistry
- Biosciences

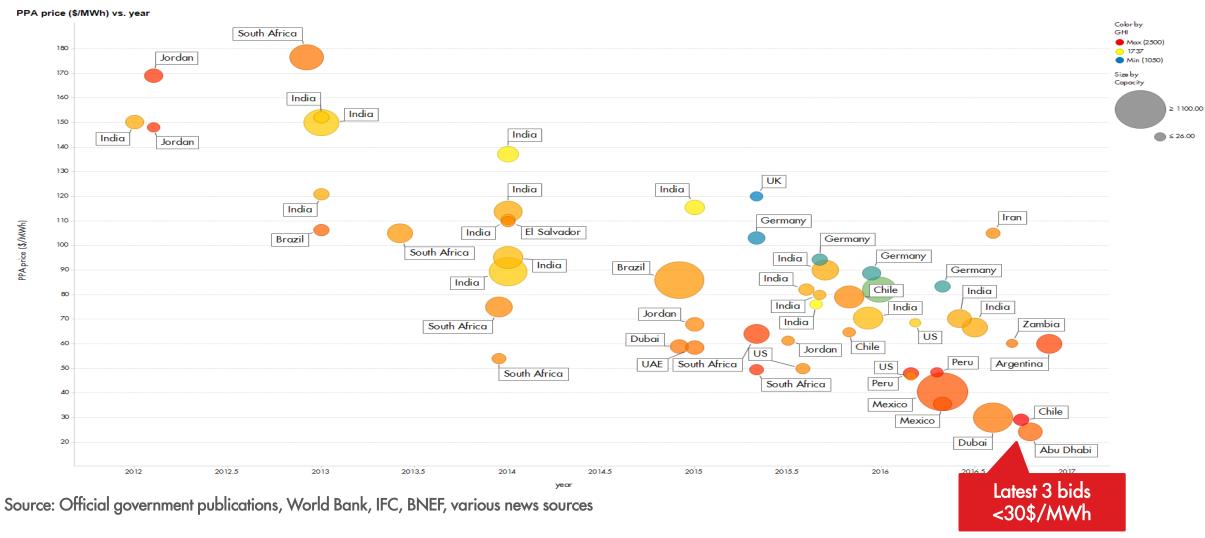
Emphasis on scientific areas where: (i) we want to build capability; (ii) there is significant innovation headrooom; (iii) it has impact across multiple applications

Solar Energy: Pathway to Dense Energy Carriers



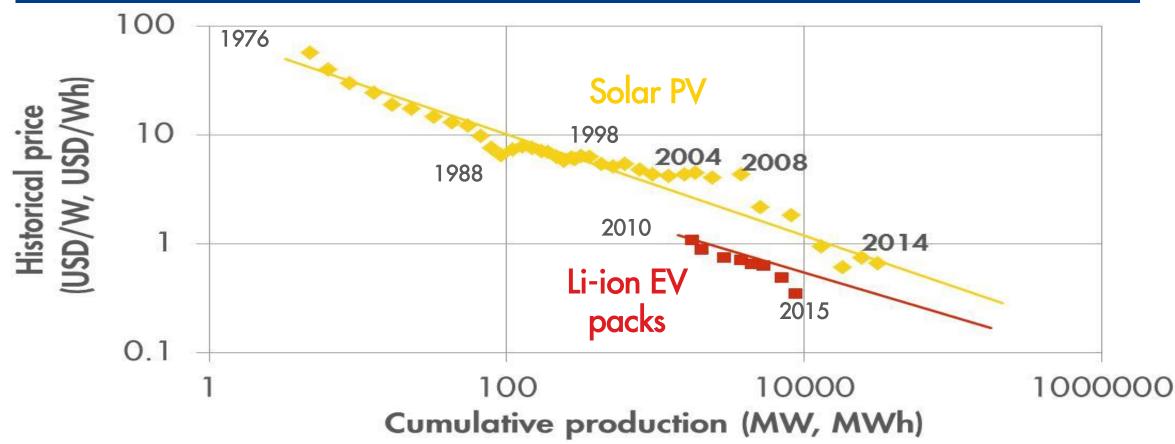
Electricity is moving from being one of the most expensive energy carriers to that with the lowest cost, with solar generation offering the highest energy utilization and the smallest footprint.

PV Auction Database: PPA prices decline



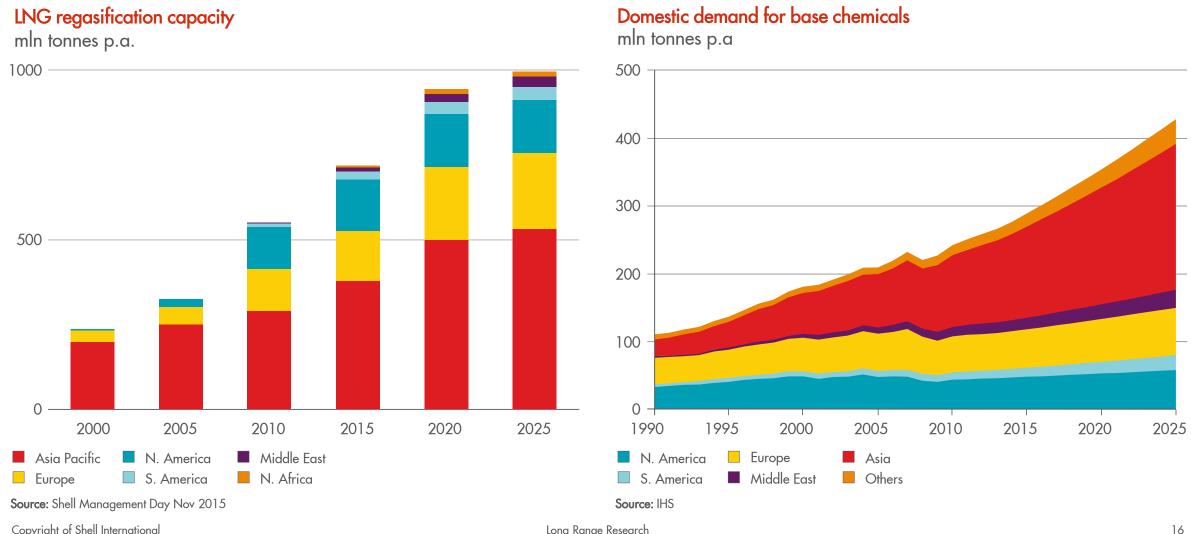
Energy Storage: Rapidly Declining Cost of Lithium-Ion Batteries





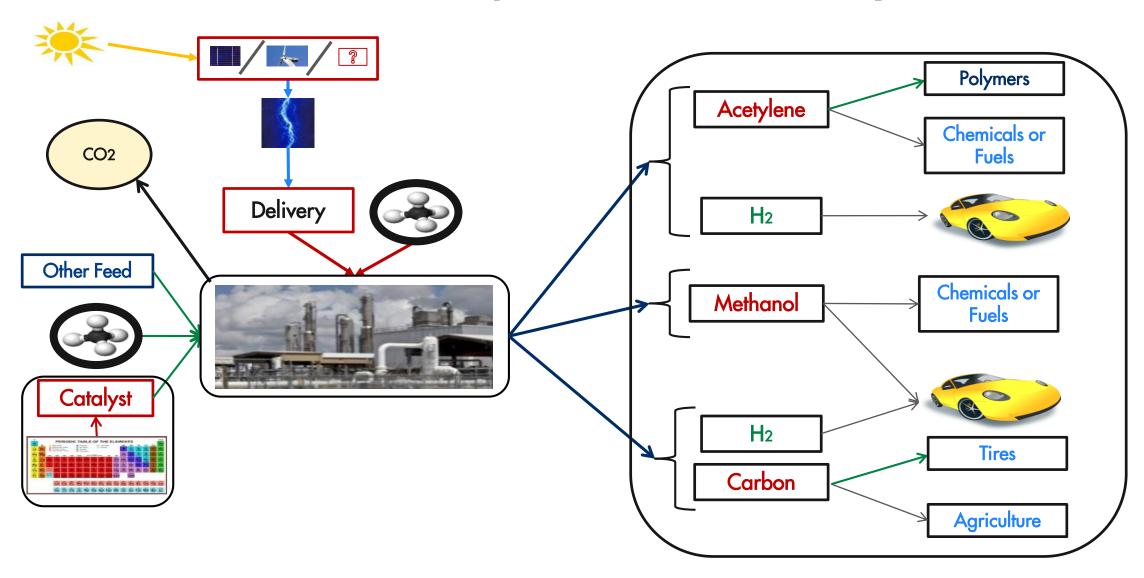
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Source: Bloomberg New Energy Finance

The Global Market for Chemicals Continues to Grow



Copyright of Shell International Long Range Research

Methane to Products: Development of New Pathways



The Long Range Research Technology Platform

PROGRAMS

DENSE ENERGY CARRIERS (DEC)

ADVANCED ENERGY STORAGE (AES)

METHANE TO PRODUCTS (M2P)

THEMES

Ultra Low Cost High Efficiency
Solar PV

Intercalation-based Battery Systems

Integrated System Analysis and Product Choice

Conversion of Photons to H2

Conversion-based Battery Systems

Chemistry & Catalysis

CO2 Direct Air Capture

Electrolytes

(b) Oxidative Pathways

(a) Fundamentals

Novel Routes to Syngas and HC Fuel Synthesis

Novel Approaches (Supercapacitors, Flow Batteries)

(c) Pyrolytic/Thermal Pathway

Artificial Photosynthesis

Separations

Discovering the Unknown

ENABLING CAPABILITIES

Computational Material Science & Chemistry

Bio-Sciences & Bio-Engineering

Exploratory Experimentation

LRR: Developing Key External Technical Collaborations Globally



Launched a New Energies Business to Explore new Opportunities





New fuels

- Cleaner transportation
- Biofuels + hydrogen



Integrated energy solutions

- NL + USA wind
- Solar for enhanced oil



Connected customer

- Connected mobility
- Connected energy

A Better Life with a Healthy Planet - Let's Make the Future!

