

**1****Mechanical Energy Storage****1.1**

Compressed Air Energy Storage (CAES)

**1.2**

Pumped Hydro Storage Plants

**1.3**

Flywheels

**1.4**

Other Types of Mechanical Energy Storage

**2****Electrochemical Energy Storage****2.1**

Batteries

**2.1.1**

Advanced Lead-Acid

**2.1.2**

Nickel-Cadmium

**2.1.3**

Nickel-Metal Hydride

**2.1.4**

Lithium-Ion

**2.1.5**

Lithium Iron Phosphate

**2.1.6**

Saltwater

**2.1.7**

Other Battery Technologies

**2.2**

High-Temperature Batteries

**2.2.1**

Sodium-Nickel-Chloride

**2.2.2**

Sodium-Sulphur

**2.2.3**

Other Technologies of High Temperature Batteries

**2.3**

Flow Batteries

**2.3.1**

Redox Flow

**2.3.2**

Hybrid Flow

**2.3.3**

Organic Flow

**2.3.4**

Other Technologies of Flow Batteries

**3****Chemical Energy Storage / Power-to-Gas****3.1**

Hydrogen Production

**3.1.1**

Electrolysers

**3.2**

Hydrogen Storage

**3.2.1**

Pressure Storage

**3.2.2**

Liquid Storage

**3.2.3**

Hydride Storage

**3.2.4**

Feeding Hydrogen into the Gas Network

**3.3**

Methanisation and other Hydrogen Refining Processes

**3.3.1**

Hydrogen to Methane (gaseous)

**3.3.1.1**

Methane Storage

**3.3.1.2**

Methane Feeding into the Gas Network

**3.3.2**

Hydrogen to Methanol (liquid)

**3.4**

Reconversion

**3.4.1**

Fuel Cell

**3.4.2**

Combined Heat and Power Plant

**3.4.3**

Gas Turbine

**3.4.4**

Gas Motor

**3.5**

Power-to-Chemicals

**3.6**

Other Technologies of Chemical Energy Storage

**4****Electrical Energy Storage****4.1**

Super Capacitors / Double Layer Capacitors

**4.2**

Superconducting Coils

**4.3**

Other Technologies of Electrical Energy Storage

**5****Thermal Energy Storage / Power-to-Heat****5.1**

Sensitive Heat and Cold Storage

**5.2**

Latent Heat Storage

**5.3**

Sorptive Storage

**5.4**

Thermochemical Storage

**5.5**

Power-to-Heat

**5.6**

Other Technologies of Thermal Energy Storage

**6****Storage Systems****6.1**

Grid-Connected Systems

**6.1.1**

Storage for Single and Multifamily Homes

**6.1.2**

Storage for Integration into Distribution Networks

**6.1.3**

Storage for Charging Infrastructure

**6.2**

Off-Grid Systems

**6.2.1**

Stationary Off-Grid Storage

**6.2.2**

Mobile Off-Grid Storage

**6.3**

Mobility Systems

**6.3.1**

Power-to-Mobility / Drive systems

**6.3.2**

Vehicle-to-Grid

**6.4**

Testing and Simulation Systems

**6.5**

Other Storage Systems

**7****Production Technologies****7.1**

Cell Production

**7.2**

Battery Production

**7.3**

Fuel Cell Production

**7.4**

Production of Electrolysers

**7.5**

Other Production Technologies

**8****Equipment / Components****8.1**

Management Systems

**8.1.1**

Battery Management Systems (BMS)

**8.1.2**

Energy Management Systems (EMS)

**8.1.3**

Climate Control Systems

**8.2**

Inverters

**8.3**

Power Electronics / Cables

**8.4**

Safety-Relevant Components (e.g. Surge Protection)

**8.5**

Other Equipments / Components

**9****Services****9.1**

Utility Companies

**9.2**

Consulting

**9.2.1**

Business Consulting

**9.2.2**

Legal Advisory

**9.3**

Financing (e.g. Venture Capital)

**9.4**

Insurance

**9.5**

Standardization / Security

**9.5.1**

Testing

**9.5.2**

Certification

**9.5.3**

Security

**9.6**

Project Developer

**9.7**

Technical Services / Maintenance

**9.8**

Monitoring Services

**9.9**

Other Services

**10****Research / Education, Trade Publishers, Associations / Organisations****10.1**

Research Institutes and Projects

**10.2**

Universities and Colleges

**10.3**

Trade Publishers / Media / Magazines

**10.4**

Associations

**10.5**

Other Insitutions