

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