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A business perspective on energy system flexibility

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A business perspective on energy system flexibility

by

Robbert-Jan Harmen van der Burg

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**rijksuniversiteit
 groningen**

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List of abbreviations

The following abbreviations are used in this thesis:

BRP	–	Balance Responsible Party
CO₂	–	Carbon dioxide
DSM	–	Demand Side Management
DSO	–	Distribution System Operator
EV	–	Electric Vehicle
FCR	–	Frequency Containment Reserve
aFRR	–	automated Frequency Restoration Reserve
mFRR	–	manual Frequency Restoration Reserve
FSP	–	Flexibility Service Provider
ISP	–	Imbalance Settlement Period
kW	–	Kilowatt
kWh	–	Kilowatt-hour
MOOC	–	Massive Open Online Course
MW	–	Megawatt
MWh	–	Megawatt-hour
OM	–	Operations Management
PTU	–	Program Time Unit
RES	–	Renewable Energy Source
SaaS	–	Software as a Service
SCM	–	Supply Chain Management
SSM	–	Supply Side Management
TSO	–	Transmission System Operator