

# GREEN CERTIFICATES

## A Joint Swedish - Norwegian Market

Nena is introducing a green certificate prices forecast for the period 2010-2035.

Renewable energy will be the main contributor to long-term generation capacity increases in the Nordic electricity market. In particular since Sweden and Norway agreed in early September to establish a common market for green electricity certificates. *“With Norway joining the system, this market will receive a lot of support. Green certificates will soon become the central driver for new investments”*, says Christian Sjödin, managing director of Nena AS .

Nena is now offering a green certificate analysis of the joint Swedish-Norwegian market.

How does the system work? How stable is it? Will small-scale hydro suddenly dominate new wind investments?

Judging regulatory frameworks and political settings, analysing potential renewable capacity, estimating cost structures of wind, hydro and biomass and forecasting the price of green certificates set the basis of this analysis, updated semi-annually.

*For more information please contact Nena at +47 22 31 41 00 or [post@nena.no](mailto:post@nena.no)*

<p><b>2</b> Executive Summary</p> <p><b>3</b> Background - Energy Policy          Swedish energy policy          Norwegian energy policy          The Nordic electricity market</p> <p><b>5</b> The Existing Swedish Green Certificate Market          Current regulations and political risks          Restrictions on entitlements of certificates          Demand          Supply          Performance          Changes to the market</p> <p><b>9</b> A joint Swedish-Norwegian Certificate Market          Target          Benefits from a common market          Framework          Transitional system in Norway</p>	<p><b>11</b> Potential for Renewables in Sweden          Wind power          Hydro power          Biomass          Other renewable sources</p> <p><b>12</b> Potential for Renewables in Norway          Wind power          Hydro power          Biomass          Other renewable sources</p> <p><b>13</b> Long Run Marginal Cost          Wind power on- and offshore          Small scale hydro power          Biomass          Learning curve          Imbalancing costs</p>	<p><b>18</b> Certificate Price Forecast - Base Scenario          Price forecast and supply/demand balance          Price risks and ranges          Do wind power producers receive the average power price?</p> <p><b>20</b> Certificate Price Forecast - Single Swedish Market Scenario          Price forecast and supply/demand balance          Price risks and ranges</p> <p><b>21</b> Appendix          Market description</p>
--	---	--