

Case Study- Mobile Application Design & Development

# Empowering Energy Management: The “SmartEnergi” Mobile Application

A mobile application that serves as a central platform for managing energy data and services in the energy industry, offering efficient monitoring and control solutions.

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# About the client:

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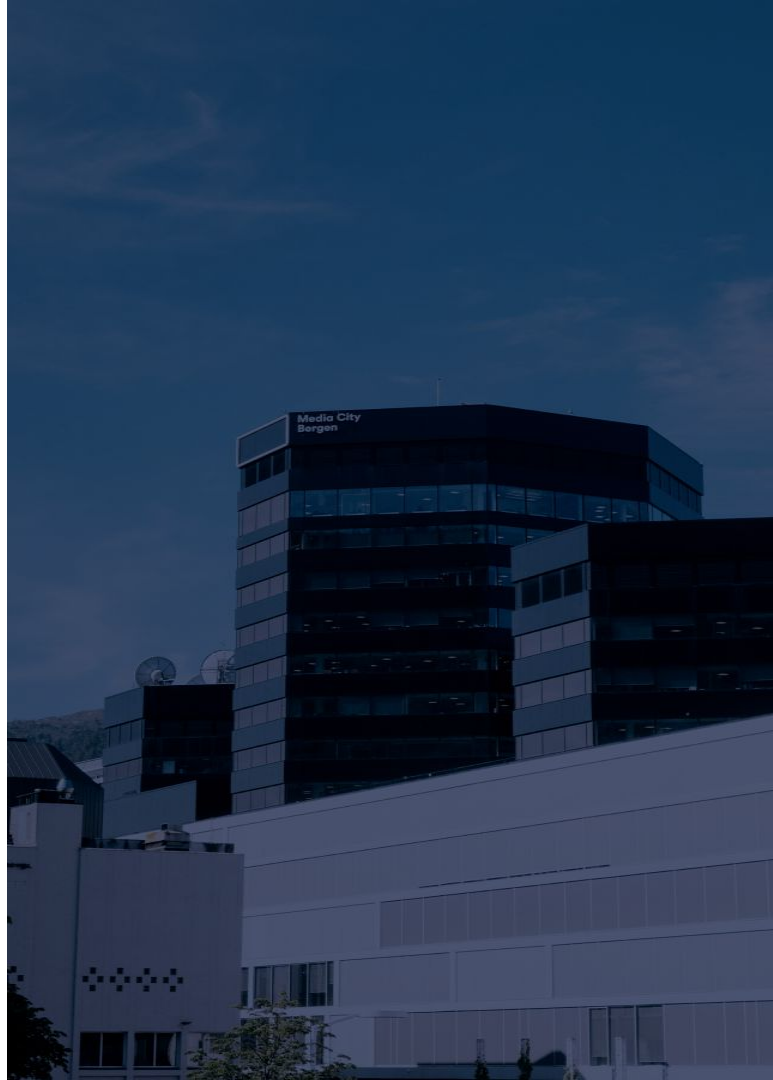
The client is a Norwegian energy company dedicated to delivering green, cost-effective energy solutions.

Positioned as a trusted energy advisor, they aim to provide an exceptional experience for customers, whether they are purchasing electricity or generating their own.

The company focuses on advancing the green energy transition in Norway and aspires to become the leading environmentally friendly electricity provider in the country. Through their innovative approach, they are driving the shift toward sustainable energy practices.

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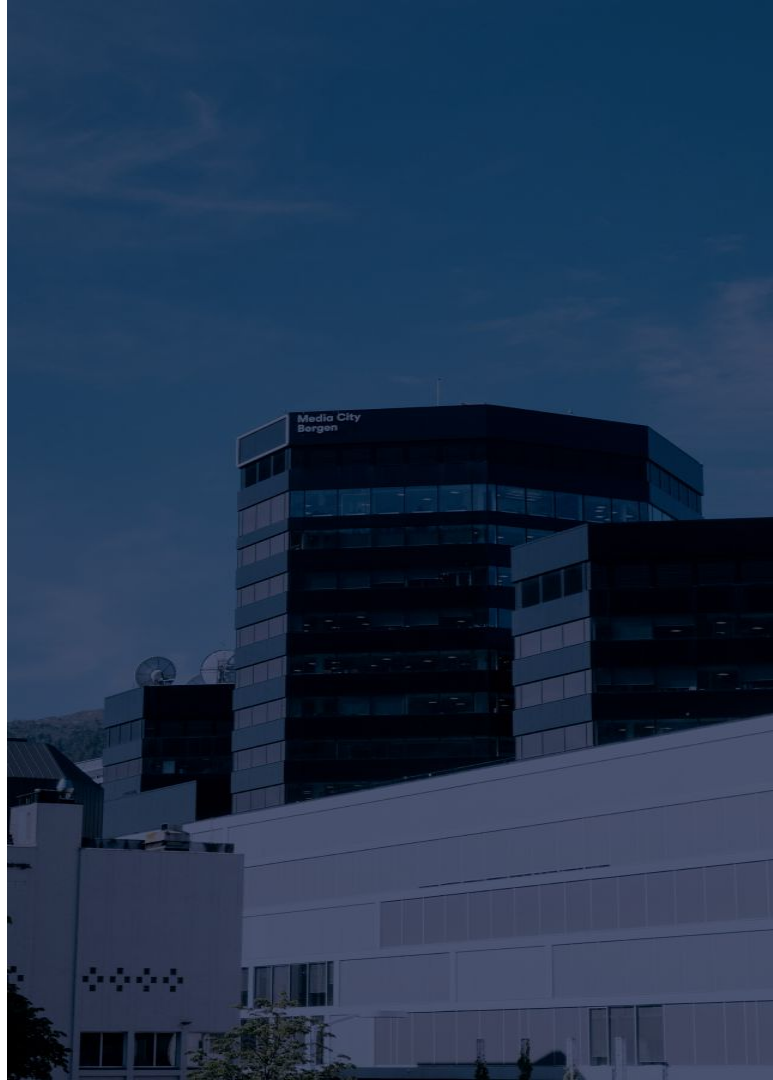
# Business Challenges & Needs

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- **Enhancing User Insights:** Improve the SmartEnergi app to provide users with detailed insights into power usage and costs.
- **Monitoring Power Consumption:** Develop features for tracking power consumption on a yearly, monthly, and daily basis.
- **Seamless Invoice Management:** Enable users to access and download invoices as PDFs within the app.
- **User-Friendly Interface:** Ensure intuitive navigation and clear data visualization for better user experience.
- **Real-Time Data Access:** Implement real-time power consumption tracking for accurate insights.
- **Data Security & Compliance:** Safeguard user information and ensure compliance with relevant regulations.

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# Goals & Objectives

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- **Familiarizing with Existing Code:** Conducted an in-depth analysis of the existing codebase to identify areas for improvement.
- **Code Optimizations:** Made performance enhancements in the code to improve efficiency and user experience.
- **Graphical Enhancements:** Updated graphical elements to enhance data visualization and user interaction.
- **Backend Integration:** Connected the app to the backend infrastructure using the available Swagger-documented API.

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## Tech Solution:

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# Key Features:

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A comprehensive mobile application was developed which served as the central platform for users to access and manage their energy-related data and services.

- **Power Usage Insights:** Allows users to track and analyze their energy consumption patterns for better decision-making.
- **Customization Options:** To cater to diverse user preferences, the app offered customization options, allowing users to tailor their energy data presentation and notifications based on their specific needs.
- **Cost Analysis:** Integrates tools to help users understand the financial implications of their energy usage.
- **Real-Time Data Integration:** Offers up-to-date information on energy usage and associated costs.
- **Invoice Management:** Enables users to manage and download invoices easily within the app.
- **User-Friendly Interface:** Ensures intuitive navigation for a seamless user experience.
- **Environmentally Friendly Alternatives:** Suggests eco-friendly energy usage options to encourage sustainable practices.

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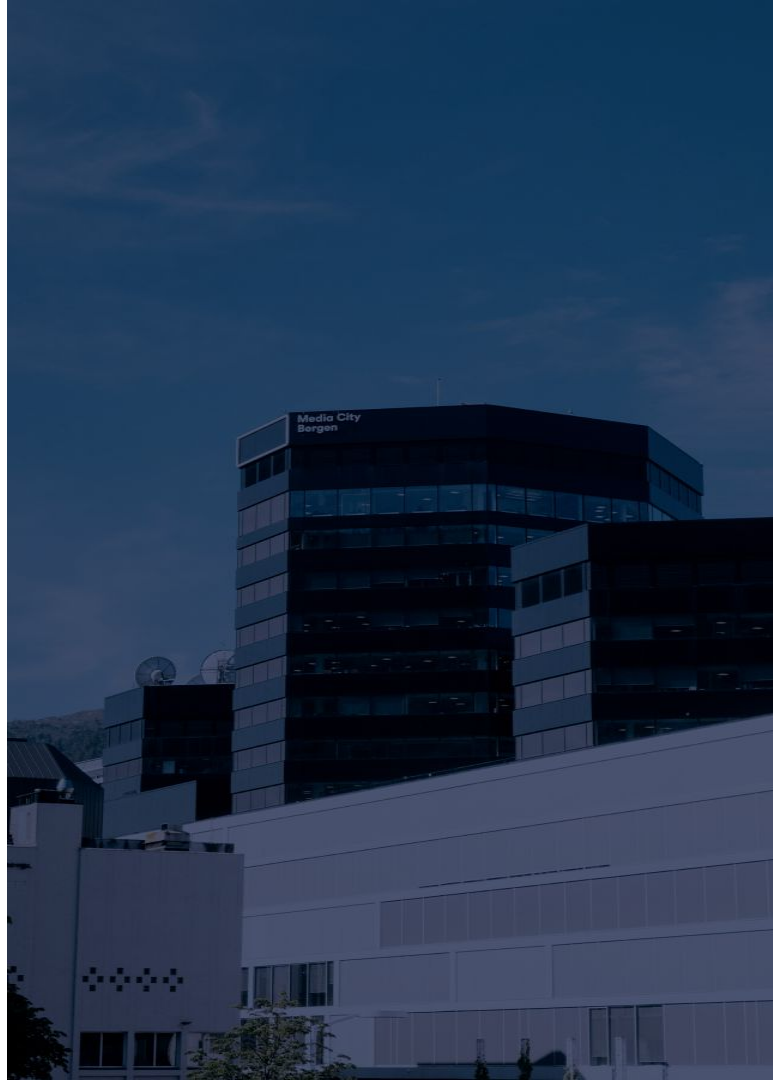
# Value Delivered:

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- **Award Recognition:** Won the 'Best in Test' Customer Service award in the energy industry (June 23), acknowledging SmartEnergi's commitment to exceptional customer service.
- **Enhanced Customer Experience:** Provides a user-friendly platform for managing energy consumption and costs.
- **Transparency and Convenience:** Integrates invoice management for transparent billing and easy access to downloadable invoices.
- **Competitive Advantage:** Differentiates SmartEnergi in the market, helping attract new customers and retain existing ones.
- **Cost Savings:** Offers insights into energy consumption and cost analysis, enabling users to identify opportunities to reduce expenses.
- **Environmental Impact:** Promotes green energy options and contributes to a sustainable energy landscape.
- **Data-Driven Decision Making:** Provides real-time data and graphical enhancements, empowering users to optimize their energy usage.

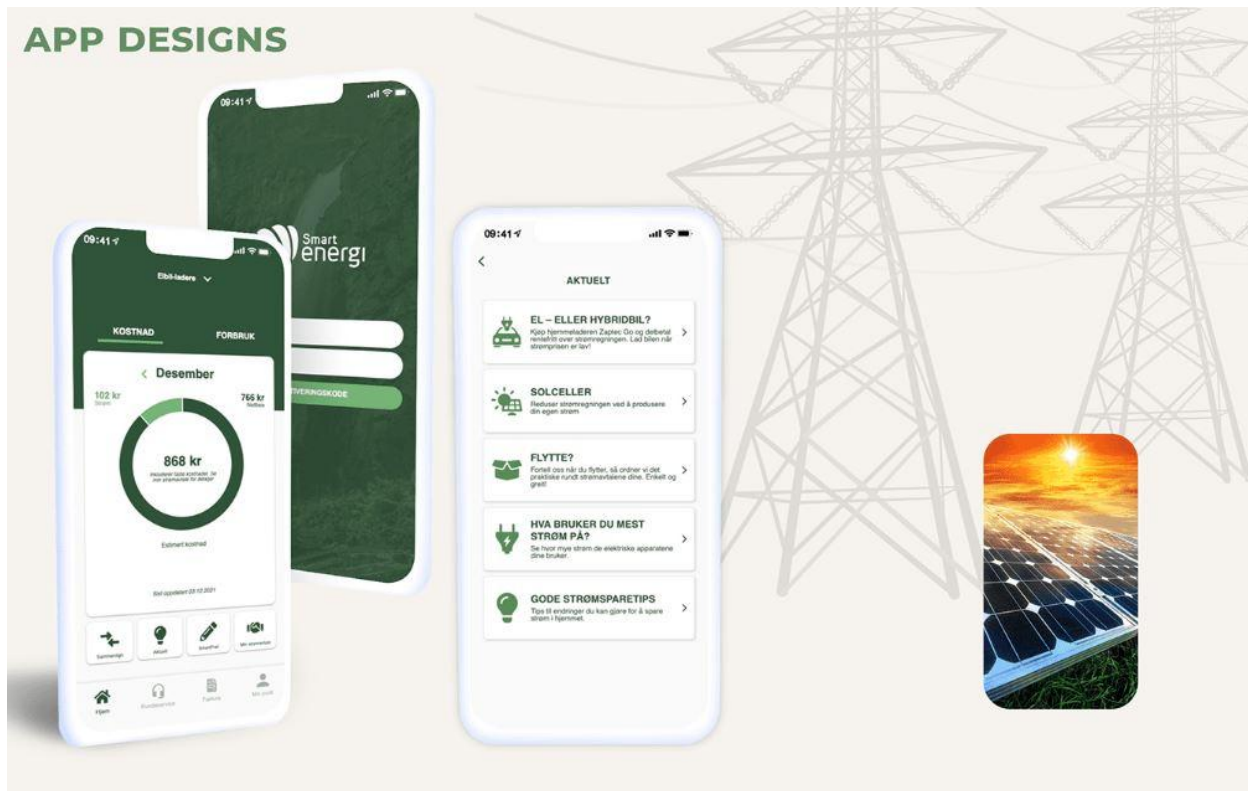
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# Final Design: Mobile Application

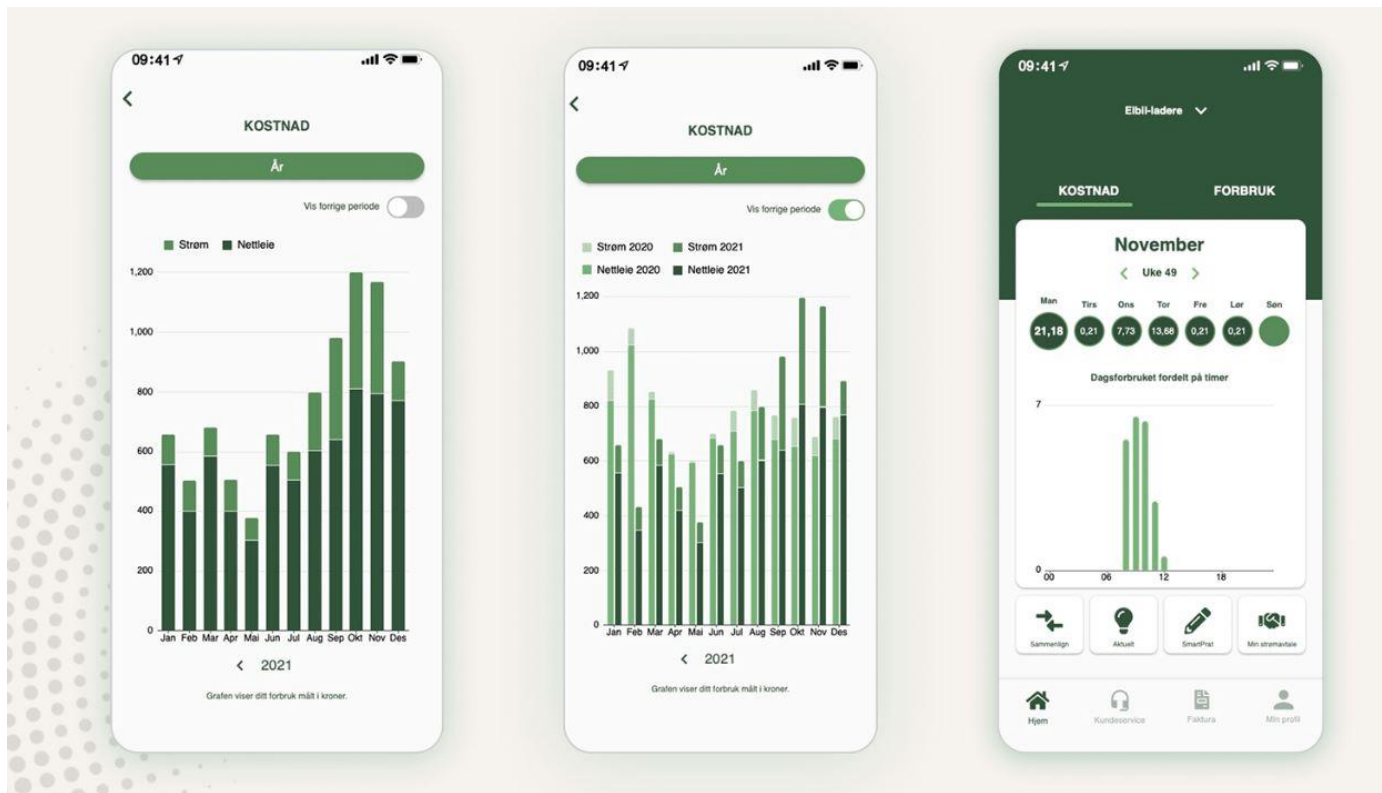


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# Final Design: Mobile Application



# Thankyou!

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Let's talk: [sales@kilowott.com](mailto:sales@kilowott.com)

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