

Academia and Industry: Career Journey and Future Energy Challenges

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Who am I?

- Ph.D. in Electricity markets from KTH Royal Institute of Technology
- Currently working as the Nordic Market Expert at Montel Analytics



Priyanka Shinde

M.Sc in Electrical Engineering from Indian Institute of Technology, Madras

2017

Research engineer at KTH

2018

Commencing Ph.D. at Division of Electric Power and Energy Systems, KTH

2019

Visiting scholar at University of Liege in Belgium

2022

Visiting scholar at University of California, Berkeley and Lawrence Livermore National Lab

Ph.D. defense

Feb 2023

Entered industry from March 2023

Ph.D. topic and past experiences



- **Ph.D. thesis titled :**

Efficient Trading in the Short-term Electricity Markets for Integration of Renewable Energy Sources:

Multistage Stochastic and Agent-based Modeling Approaches for Continuous Intraday Electricity Market

Awarded with European Energy Exchange Excellence Award 2022 by EEX;

Best Ph.D. thesis in 2023 by Swedish Electrical and Computer Engineers National Association

- **Teaching experiences :**

Teaching Assistant of Electric Power Generation, Operation and Planning course (from 2018 - 2022)

- **Supervision experiences :**

Supervised five MSc thesis students in Electric Power and Energy Systems

- **Collaboration experiences :**

Internal collaborations within KTH

Research visits

Organizing international conferences

Organizing wind forecasting competition

Career Journey in Power and Energy

- **Key turning points: pivotal projects, mentors, or decisions**
 - Not shying away from networking, attending conferences, discussing and sharing ideas.
 - Finding synergies with fellow researchers
 - Helped also find mentors
 - Collaborative projects have been pivotal in my PhD journey
- **Transitions between academia, industry, and leadership – what motivated the changes and what challenges came with them**
 - Curiosity about the real world
 - At the beginning, some struggle can be about proving the worth of your Ph.D. (not always)

Lessons Learned Along the Way

- **Things I wish I had known earlier in my career!**
 - time is money!
 - focus on the larger picture
 - don't lose precious time on things that don't add value
 - Be better organized
- **Skills beyond technical knowledge that proved valuable:**
Leadership, communication, teamwork, adaptability, resilience
- Challenges faced and overcoming them

The Role of IEEE in a Professional Career

- Networking opportunities (local and global)
- Exposure to international perspectives, conferences, standards
- Leadership/volunteering roles within IEEE communities
- Examples of how IEEE opened doors for collaborations, projects, or recognition

The Future of the Power and Energy Sector

Trends shaping the industry:

- Renewables and flexibility
- Digitalization and smart grids
- Energy storage and electrification
- What these trends mean for young professionals today?
- Skills and mindsets that will be in high demand in the next decade

Advice for Young Professionals

- How to build a meaningful career in this field.
 - identify
 - plan
 - execute
- Striking a balance between deep specialization and having a broad understanding.
- Tips for effective networking and mentorship: how to find mentors, how to give back as a mentor.
- Work-life balance and keeping motivation over the long term.

Personal Reflections and Motivation

- What keeps you passionate about working in power and energy?
- Most rewarding projects or career moments
- The importance of lifelong learning and staying curious

Career advice

- Be ready to simplify things: focus on key message/ learn to summarize
- Be open-minded to learn new skills that improves your employability
- Communication skills are the key!
- Collaboration during Ph.D. is a stepping stone for team work in industry
- International exposure: helps to understand different culture
- Seek opportunities for networking within your domain



Find a job you enjoy doing, and you will never have to work a day in your life.

Mark Twain



Who are we?

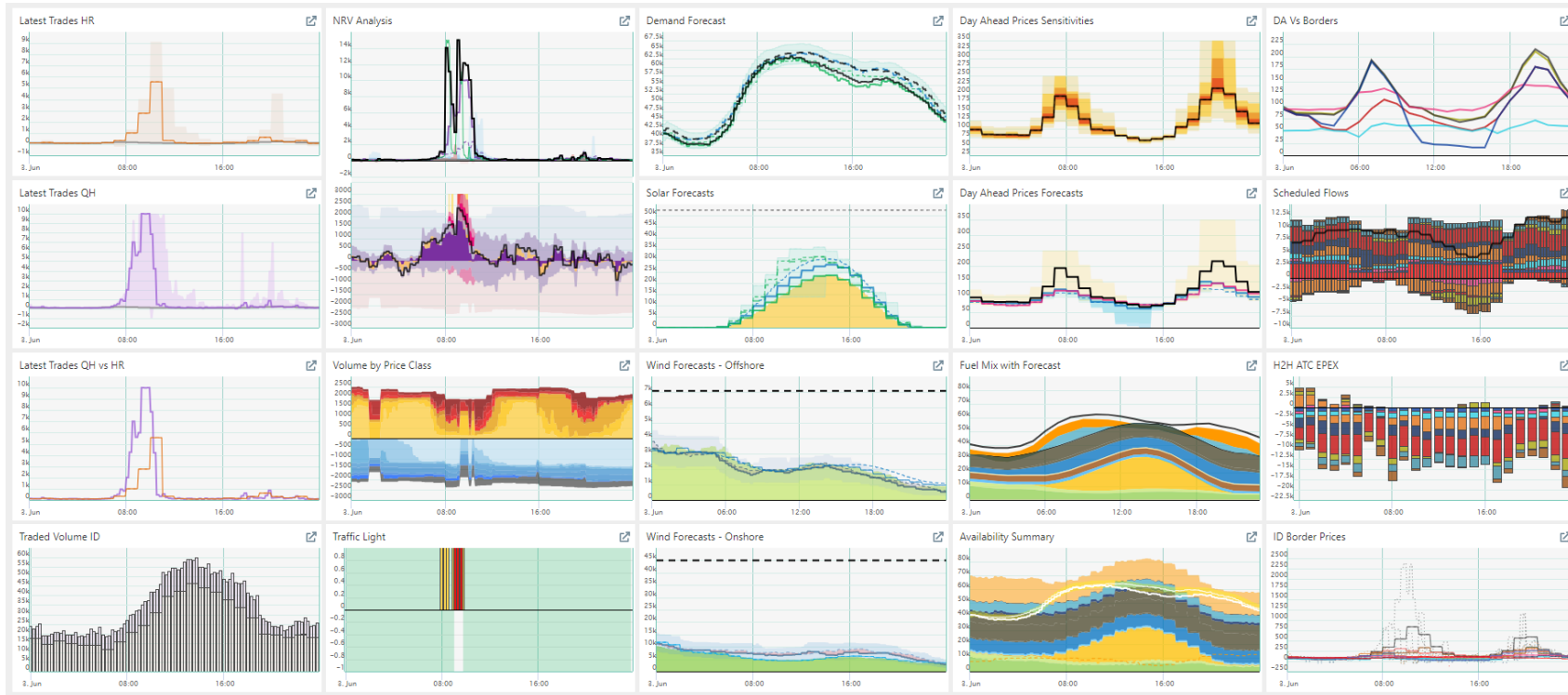
MONTEL

Helping you make sense:

How Montel Analytics Products help you make sense of Day Ahead Prices and their impacts on markets from intraday to short-term, to energy buying, to PPA's and Long Term Investment

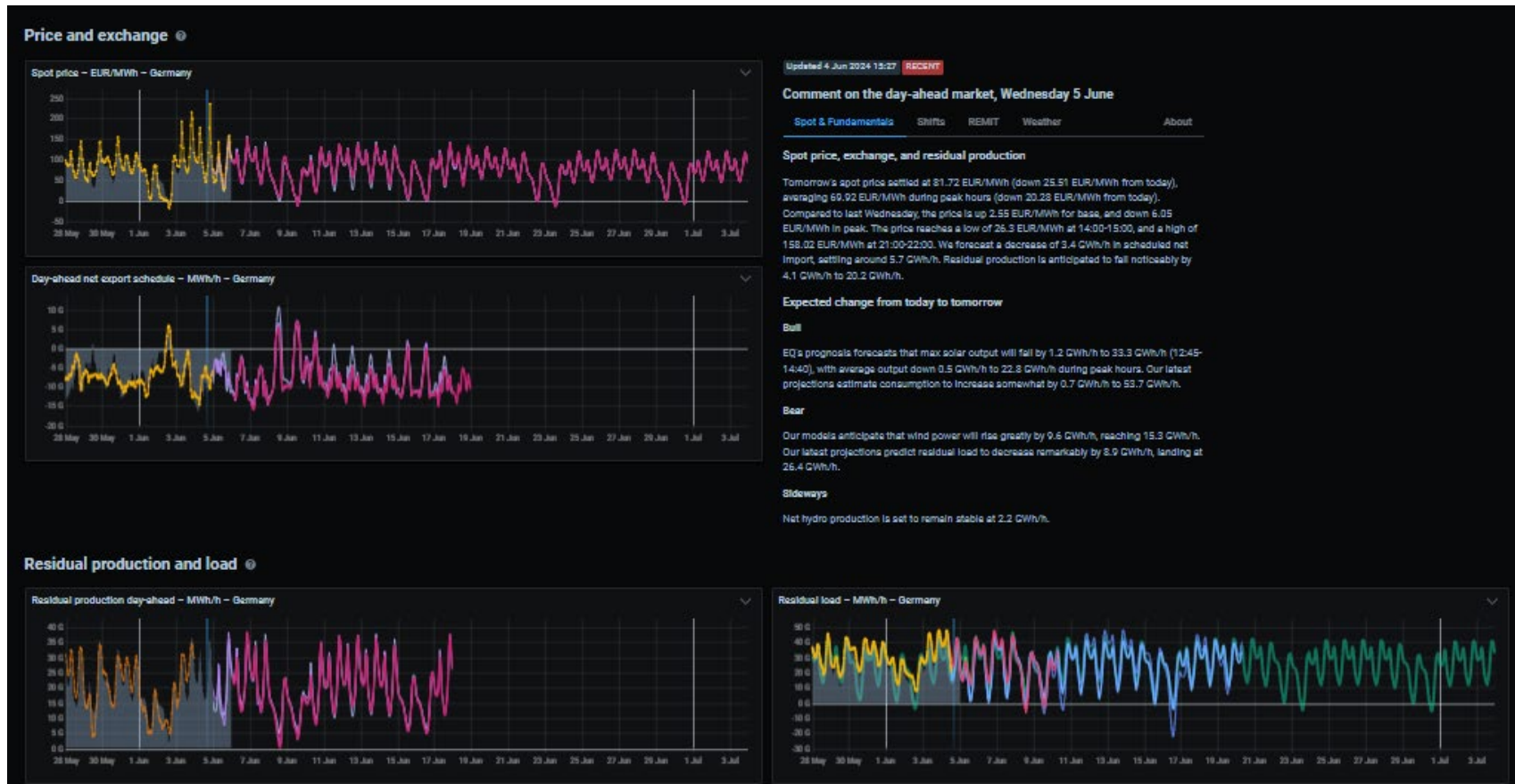
Another line of offering: Montel News and Energy days/conferences

Intraday, real-time, balancing, day-ahead



- Your real-time cockpit view of the market
- Real-time decision support
- Short-term trading
- Balancing markets
- Ancillary Services
- Sensitivities
- Volatility indicators
- Price and generation forecasts for trading

Day Ahead, Week Ahead, Energy Purchasing (to 45 days ahead)



- Your daily dose of energy market data.
- Weather forecasts, hydrology
- Fundamentals
- Price forecasts
- Carbon intensity
- Market Commentary