PhD Thesis: Table of Contents plan Abstract. Introduction what he we done? Motivation Research questions and methodology Contribution ← - Thesis organisation and structure - Related publications Optimising energy and overhead for large parameter space simulations (IGSC 2019, accepted) - workell me Justify who that page Background Energy transitions
- a every workers - Chapter summary holym Introduction - Past of Energy Transitions (0%) - Conclusion and French fresh of MC, Shulather, Fresh Workers.

Literature Review - Whole space

- Chapter summary Protogne

- Introduction to energy modelling (2001)

- IAMS (3501) - IAMs (35%) Agent based models (85%) - ElecSim : Monte-Carlo Open-Source Agent-Based Model to Inform Policy for Long-Term Electricity Planning (e-Energy workshop 2019, accepted) - Conclusion ElecSim Model - Chapter summary Prologue - Introduction and motivation (100%) - Architecture (95%) Model to Inform Policy for Long-Term Electricity Planning (e-Energy - Validation and performance (95%) → - ElecSim : Monte-Carlo Open-Source Agent-Based Model to Inform Policy for Long—Term Electricity Planning (e—Energy workshop 2019, accepted) Long-term electricity market agent based model validation using genetic algorithm based optimization (e-Energy 2020, submitted) - Conclusions **Applications** - Chapter Summary Prologue - Introduction - Scenario testing (15%) - Some preliminary scenarios in: ElecSim : Monte-Carlo Open-Source Agent-Based Model to Inform Policy for Long-Term Electricity Planning (e-Energy workshop 2019, accepted) - Carbon optimisation (90%) - Menho 1686

- Optimizing carbon tax for decentralized electricity markets using an agent-based model (e-Energy AMLIES workshop 2020, submitted)

- 30-minute + day ahead prediction (70%)

- Segmenting residential smart meter data for short-Term load forecasting (e-Energy 2018, accepted)

- As yet untitled (IGSC 2020, to be submitted)

Other models

Chapter summary

- Introduction (limitations of ABMs) (70%)

- FTT: Power model with Reinforcement Learning for

Investment (5%)

- As yet to see whether will be published and where

Conclusion

Conclusions

Thesis Summary

- Limitations (40%)

Future Research Direction (70%)

Short. Short and punchy for achievement

References

Appendix

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