| Training | A3.Sys3 - Modelling Smart Energy Systems |
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| Keyfacts | |
| Target Group | System Architects and everyone who is involved in development of solutions for Smart Energy Systems |

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| **Duration** | **3 days** |
| **Language** | **English or German** |
| **Setting** | **On-site or remote** |

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| Training Goals | The ultimate goal of this training is to learn how to exploit domain-specific concepts of the Smart Energy Domain for developing solution architectures. As such, the particular goals of this training are:<br><br>**#1 - Domain-Specific Concepts**<br>Participants know about existing concepts for modelling Smart Energy solutions<br><br>**#2 - Enterprise Architecture and IT/OT Integration**<br>Participants know established concepts to model Enterprise Architectures and understand how to integrate them with Smart Grid specific OT architectures<br><br>**#3 - Smart Grid specific modelling concepts**<br>Participants know Smart Grid specific Architecture Frameworks, Reference Architectures, and modelling environments to develop architectural solutions |

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| Training Content | **Introduction / Recap**<br>• The Generic Modeling Stack and where to integrate domain-specific concepts<br><br>**Smart Grid Specific Concepts**<br>• The Smart Grid as System-of-Systems<br>• IT/OT integration<br><br>**Modelling Enterprise Architecture**<br>• Enterprise Architecture Frameworks (TOGAF, Zachman, Archimate)<br>• Enterprise Architecture Modelling Languages (BPMN, TOGAR, Archimate)<br><br>**Smart Grid Architecture Frameworks**<br>• The Smart Grid Architecture Model (SGAM)<br>• Modelling the Smart Grid: The "SGAM Toolbox"<br><br>**Smart Grid Reference Architectures**<br>• The ENTSO-E Role Model<br>• The NIST Logical Reference Model<br>• The Common Information Model<br><br>**Modelling the Smart Grid Grid: Working with…**<br>• SGAM Toolbox<br>• NIST Logical Reference Model<br>• Common Information Model<br><br>**Making it yours: Tayloring the Modelling Environment and Modelling Languages**<br>• How to extend the existing DSL |
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| Learning Methods and Didactics | Theory input and practical exercises; don't forget to bring your computer! |
| Your Benefit | In this training you will learn how to create system models on basis of existing, Smart Grid specific concepts. By doing so, your models will be created in the "lingua franca" of the Smart Grid domain which provides the basis for having all stakeholders on board. |
| Your Trainer | **FH-Prof. Dr. Christian Neureiter**<br>neureiter@successfactory.cc<br>  <br>Christian is Professor at the School of Information Technology and Digitalisation at Salzburg University of Applied Sciences. As head of the "Center for Dependable Systems Engineering" he is an expert in this field and has profound knowledge on the matter.<br>Asides his academic role, Christian has 10+ years of experience as consultant and trainer<br>at the Successfactory Consulting group with a particular focus on Leadership, Software, and Systems Engineering related topics. |