

From Grid to Driver: Orchestrating the EV Charging Ecosystem with AI

November 2025
www.amp-it.ch

SOLUTION: AMP IT HUB 2.0 (KEY FEATURES)



ACCESS FOR COMPANIES AND INDIVIDUALS

Seamless access to the EV charging service for both corporate and residential users in private multi-tenant buildings.



AUTOMATED INVOICING

Streamlined billing process with automated invoicing.



PAPERLESS CLIENT JOURNEY

Fully digitized, paperless user experience for hassle-free management.



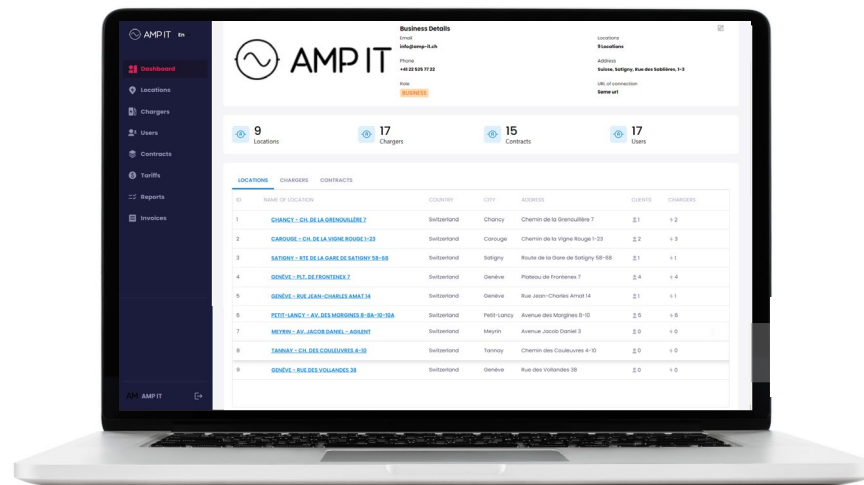
MULTIPLE USER ROLES

Flexibility to assign various user roles for effective management.



OCPP 1.6 COMPATIBILITY

Fully compliant with OCPP 1.6, ensuring interoperability across hardware providers.



CHARGING SITES MANAGEMENT

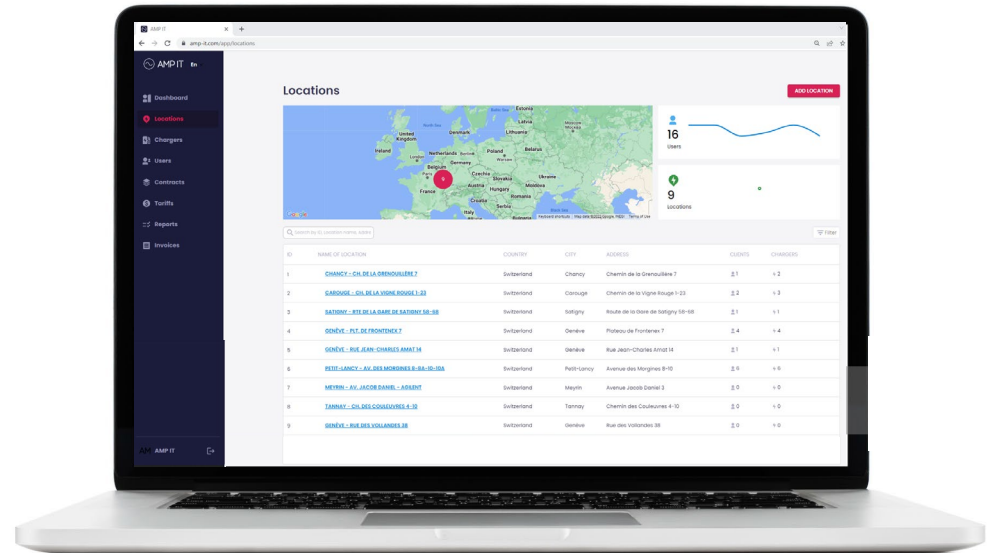
Possibility to create **new locations** and associate charging stations / customers with locations.

Adding .jpg / .pdf **files** to locations (plans, photos).

Automatic **association** of the user with the location if the addresses are the same.

Notification to the administrator if a user with a new address registers on the application / portal.

Possibility to **monitor the residual value** of the installation (pre-equipment of the parking and the value of the charging stations).



CREATION OF PERSONALISED TARIFFS

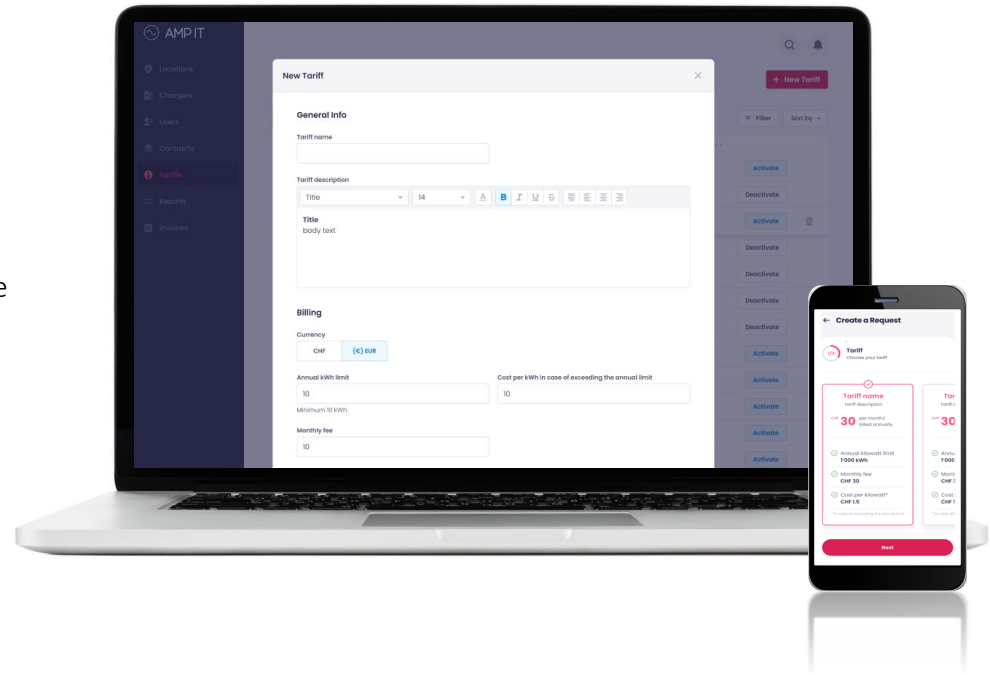
The system allows to define the multitude of **kWh** tariffs coupled with fixed **subscription** prices.

The kWh price can be defined based on the following parameters:

- **Source of energy** : grid / solar / battery
- **Season**: summer vs winter prices for example
- **Day of the week** : week-end vs week days for example
- **Time** : by hour definition

The prices can be applied in a flexible manner to building, charger, user, RFID.

Pricing priorities are implemented to reflect on temporary promotions.



CONTRACT MANAGEMENT

Signature of the contract directly **online** by the customer.

Checking the **status** of the contract (pending signature, in installation, in operation) via the portal.

Consultation of the .pdf contract at any time by the customer and by the site administrator.

Definition of minimum contract duration. Notifications with regards to the contract renewal.



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Messagerie professionnelle
info@amp-it.ch

INFORMATIONS SUR LE CONTRAT

Identifiant du contrat XX-XX-XX-XX	Date de début de contrat 21.05.2022	Date de fin de contrat 21.05.2024
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INFORMATIONS CLIENTS

Nom du client Prénom / nom de famille	E-mail client nom@gmail.com	Numéro de téléphone du client 46.86.678.5678
Adresse de stationnement 12345, Nouvelle Zélande, Nom de Ville, Nom de rue, 234, Numéro du parking 12C	Adresse client 12345, Nouvelle Zélande, Nom de Ville, Nom de rue, 234	

NOM DU TARIF

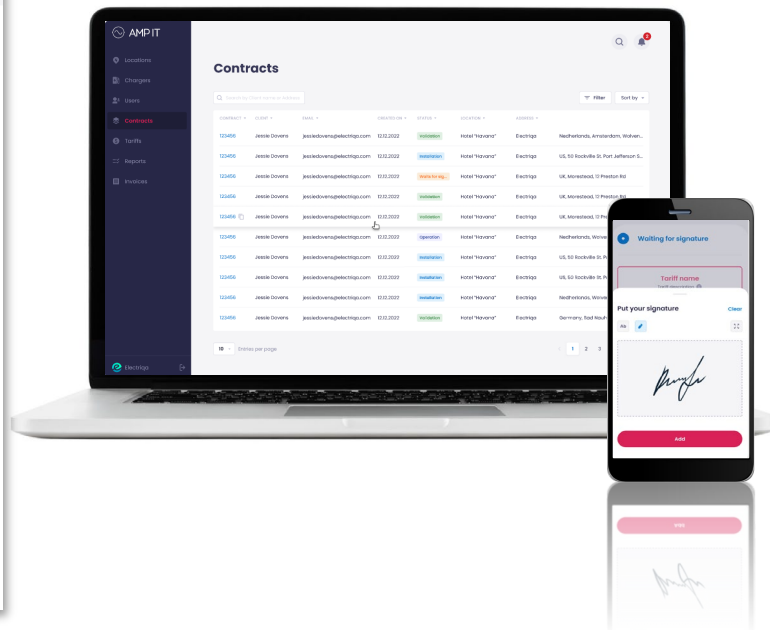
Limite annuelle de kWh 1 000 kWh	Redevance mensuelle CHF 30	Coût par kWh CHF 1.5 *En cas de dépassement du plafond annuel
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Termes d'un contrat

J'accepte les Conditions Générales de AMP IT et je confirme que je prendrai l'intégralité des frais résultant de l'utilisation des équipements de recharge faisant l'objet du présent contrat d'abonnement (« Contrat »). Ce Contrat prend effet à compter de la dernière des deux dates suivantes, sous réserve du résultat positif de l'évaluation finale de solvabilité de la part de AMP IT : la date à laquelle je signe ce document ou, s'il s'agit d'un renouvellement du Contrat, la date de l'expiration de la durée minimale du Contrat en cours. Le paiement des mensualités révisé dû à partir de la Date de Mise en Service de l'installation de recharge et uniquement si l'installation a effectivement eu lieu. Le Contrat est conclu pour la durée minimale indiquée et se prolongera pour des périodes successives de 1 an. La durée minimale est complétée à partir de la date de mise en service de l'installation de recharge. Un Contrat avec une durée minimale de 24 mois peut être révisé avec un préavis de 60 jours pour la fin de la durée minimale ou de chaque prolongation. Si le Contrat est résilié avant la fin de la durée minimale ou de chaque prolongation, les montants suivants seront payables: CHF 16.95 pour frais administratifs plus le prix mensuel de l'abonnement jusqu'à la fin de la durée minimale du contrat ou de chaque prolongation. En cas de résiliation anticipée du Contrat associé, le solde dû au titre du paiement à temps est payable immédiatement.

Signature du client	Date 21.05.2022
	
Signature commerciale Shop en ligne	Date 21.05.2022

ID du document : 492926500F8B3465F396A477A7C980907225



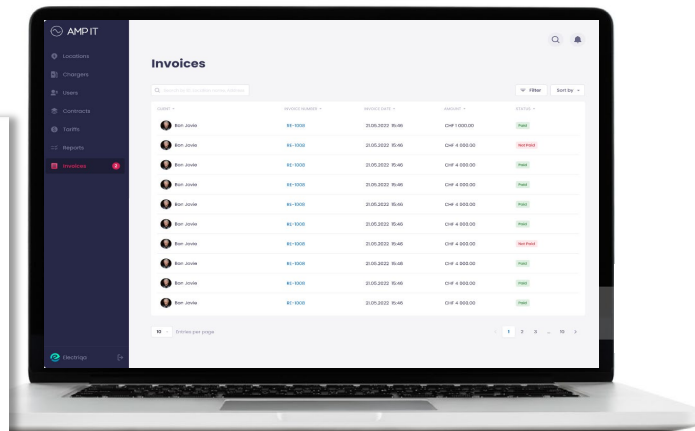
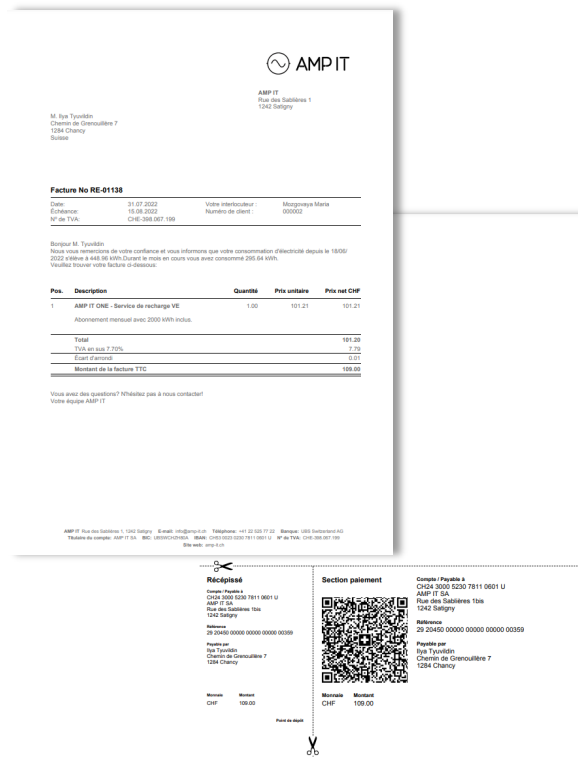
AUTOMATIC INVOICING

Automatic monthly **invoicing** to the customer via QR invoice.

Integration with an accounting systems with online payment status tracking.

Invoice **history** can be viewed by the customer.

No financial intermediary, no hidden costs, the payment is **directly** sent to the bank account.



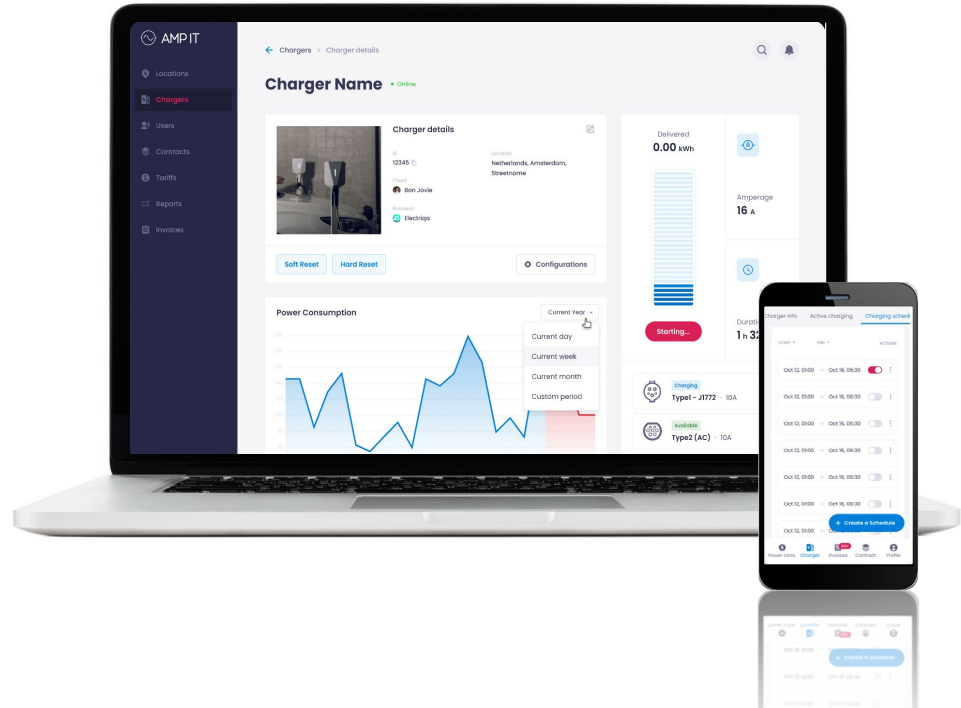
CHARGING STATIONS MANAGEMENT

Hardware agnostic - Integration of charging stations from different suppliers (OCPP 1.6).

Remote terminal maintenance via OCPP commands.

Real-time power consumption.

Programming of the charging time by the user.



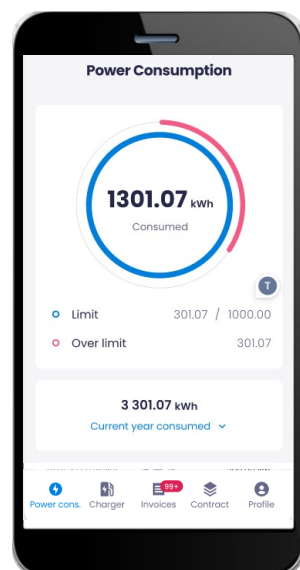
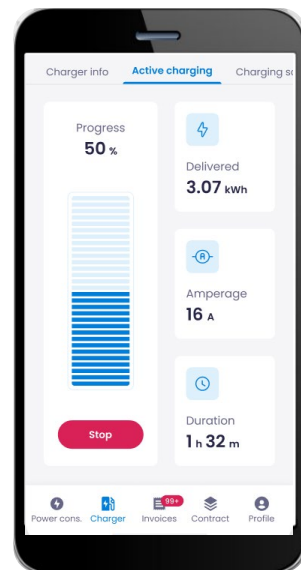
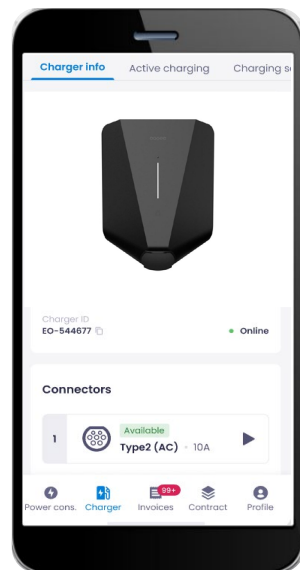
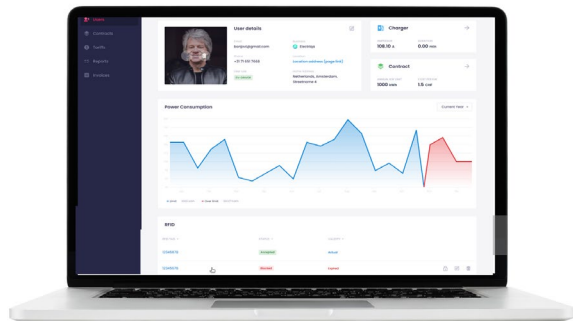
USER PROFILE

Access to **power consumption** data for each user.

Assignment of **RFID** tags for the user profile.

Charging session data.

One-click access to the **contract**, charging station and user location.



AMP IT HUB 2.1 - KEY FEATURES (COMING LIVE Q1 2026)

SMART CHARGING SCHEDULE

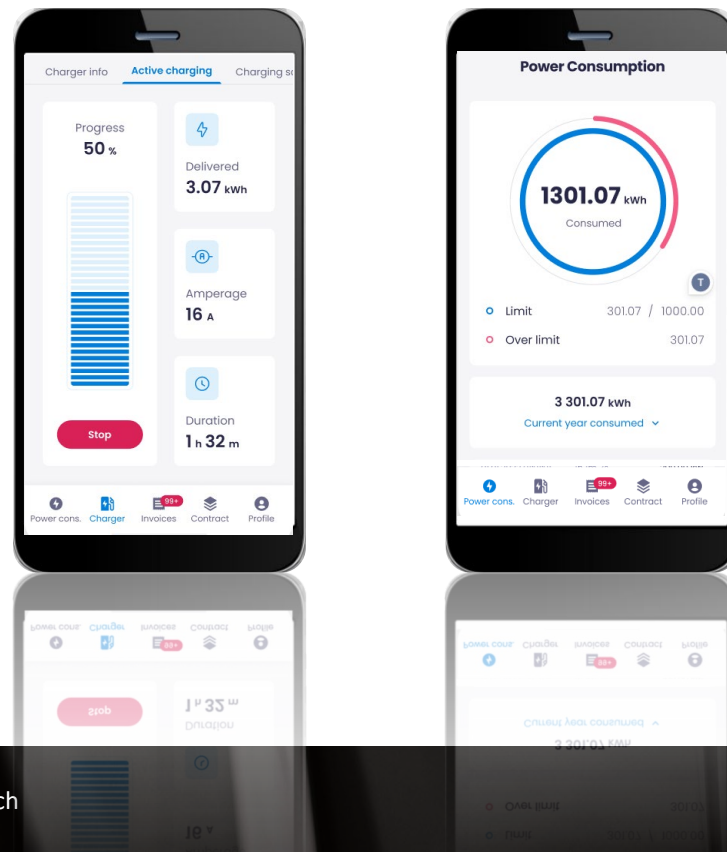
Optimize charging schedules based on user preferences and real-time grid conditions, reducing costs while alleviating peak-time grid pressure. AMP IT's smart planning system ensures energy efficiency and user convenience.

MAXIMIZING SOLAR ENERGY USAGE

Prioritisation of the solar energy produced by the building's own solar panels over any other source of energy for charging.

ELECTRICITY TRADING (VALAIS PILOT PROJECT)

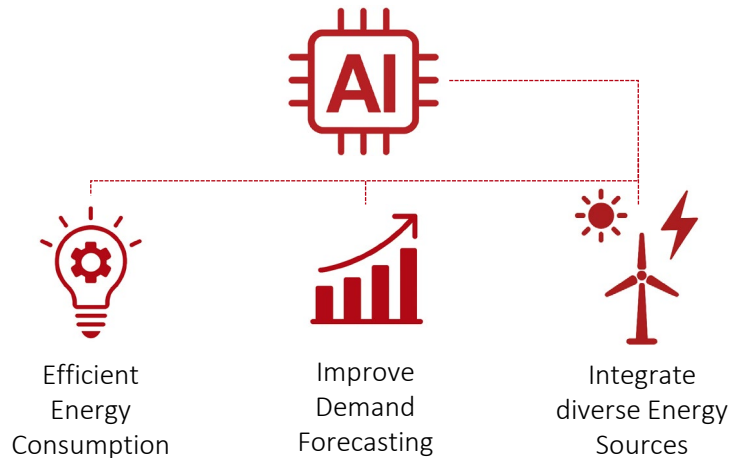
Empowering communities with decentralized energy trading: Users can buy and sell renewable electricity, utilizing EV batteries for temporary energy storage. This innovative pilot project in Valais fosters energy independence and sustainability.



OUR AI INTEGRATION

AMP IT will incorporate AI to **optimize the management of heterogeneous energy sources** and select their use **dynamically**

AI enables an efficient **energy consumption calculation**, improves the **demand forecasting** and loads the distribution among the **available resources**



AI PARADIGMS FOR AMP IT HUB

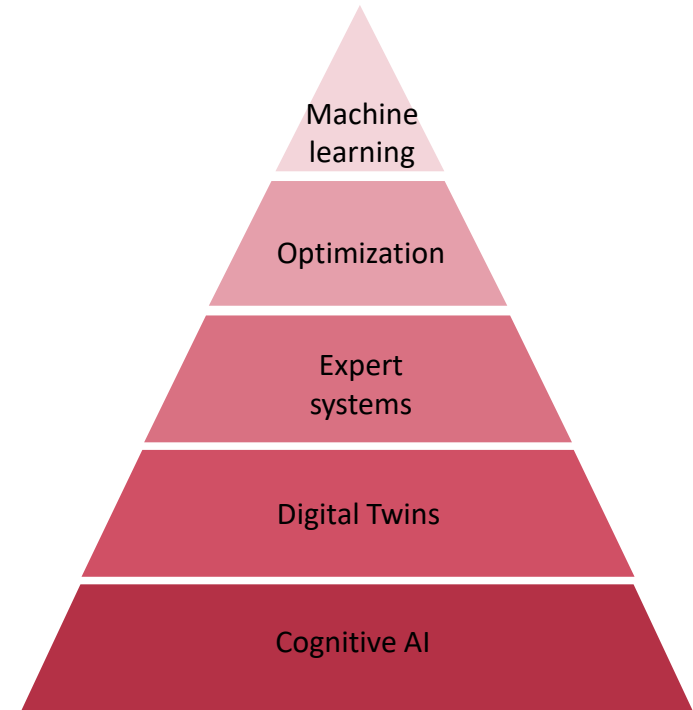
AMP IT foresees the implementation of several AI paradigms for specific goals:

Machine Learning: demand forecasting, anomaly detection

Optimization (OR+RL*): dynamic balance of solar / grid / batteries

Expert systems: tariffs, regulation, compliance

Digital Twins: simulation of complex and holistic energy scenarios



BENEFITS OF AMP IT HUB

Streamlining operations and maximizing business potential



Operational Efficiency



Revenue Optimization



Scalability



Customer experience

Operational Efficiency

- Centralized monitoring
- Automated billing with tailored tariffs

Revenue Optimization

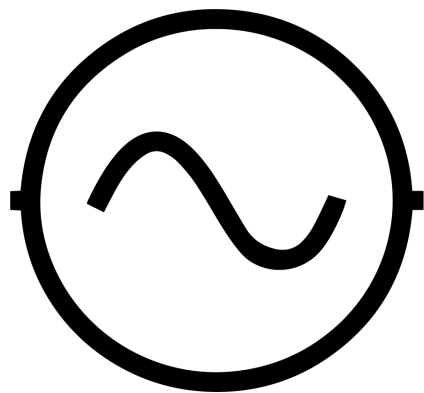
- Dynamic Pricing
- Maximizes asset utilisation by balancing peak / off peak demand

Scalability

- Support multi site/country rollouts
- Cloud based infrastructure allows fast deployment & expansion

Customer experience

- White labelled
- Stransparent billing, receipts and loyalty or incentives programs



AMP IT

SIMPLY MOBILITY