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| **Google Play** | | | | |
|  | **Name of the app** | **Main idea and process of tracking energy consumption** | **Options suggested to user (****try bullet points)** | **Number of users** |
| 1. | Home Electricity Calculator | Used for calculating home electrical load and to calculate home electricity monthly bill. The application contains solar plant calculator for your home, for office or any residential building. The application also contains the generator design for your home | * The home electricity bill calculator is based on energy spending in your home, which is used to calculate total electricity consumed by your house appliances. * It will also calculate your total electricity bill for a day, for a week, for a month and for a year. | 10K+ |
| 2. | Watts | Watts is your digital platform where you get a full overview of your own consumption of electricity, water and heat. They show you the way to a greener everyday life and give you full control of the home. | * See your expected energy consumption * Follow your actual consumption by quarter, month, week, day, hour * See when the power is greener * See the cost of power hour by hour * Get notified if energy consumption increases | 100K+ |
| 3. | Meters reading | Avoid waste by reading your meters with this app. Thereby, you will always be aware of your consumption of water, gas or electricity and your daily average. | * view weekly, monthly or yearly total and average consumption * make online backups * export to excel * import data from excel | 50K+ |
| 4. | My Electric Meter | My Electric Meter App tells you how much electricity your home is consuming right now. | * Provides consumption by scanning the LED indicator * The kWh correlates to equipment load connected. Could check both kWh pulses and kVAh pulses. | 10K+ |
| 5. | Energy Cost Calculator | Calculates the usage and cost of energy per day, week, month and year based on consumption per hour and hours of usage per day. Calculated values and results can be shared to social media, mail, messages and other sharing apps | * All a user needs to do is enter an estimated energy use per hour and hours used per day. * The result shows users exactly what they are paying. | 10K+ |
| 6. | [Energy Consumption Analyzer](https://play.google.com/store/apps/details?id=at.topfen.ecas&hl=en&gl=US) (ECAS) | Add your meters for gas, electricity, or water to the database and record the current meter readings from time to time. Readings can be color-coded, and comments may be added to remember special situations which may explain unusual energy usage. | * Average normalized rate of consumption per hour, day, week, or month. * Total amount of used energy during each day. | 100K+ |
| 7. | [Energy Consumption Tracker](https://play.google.com/store/apps/details?id=com.swinergy.enusa&gl=DE) | Add readings manually at a regular interval and compare your recent consumption with those in the past. | * 3 predefined meters Electricity, Gas and Water. * List and graph overviews of the energy consumption | 10K+ |
| 8. | [Energy Buddy - Energiemanager](https://play.google.com/store/apps/details?id=de.coneva.energy&gl=DE) | Track electricity consumption and keep electricity costs under control with visual analysis. With your own PV system, you can share your electricity with the community and actively promote the energy transition. | * Additional transparency about your CO₂ footprint and suggests personal goals for fewer emissions and more climate protection. | 10K+ |
| 9. | [Meter Monitoring](https://play.google.com/store/apps/details?id=com.schultheiss_langner.zaehler&gl=DE) | Supports logging and recording of meter reading of different meters. enables continuous overview of consumption for a particular measuring point | * Export data to CSV file for further evaluations. Stats can be saved as PDF. | 5K+ |
| 10. | [Smappee](https://play.google.com/store/apps/details?id=com.smappee.app&gl=DE) | Provides energy data and smart control for homes and EVs in real time with devices connected to solar PV and Wi-Fi. | * Smart charging solution for EVs. | 10K+ |
| **App Store** | | | | |
| 11. | Emporia Energy | Emporia is an electrical company that specializes in smart homes technology systems such as energy monitors, smart plugs, and batteries. The company was founded in 2018 and is based in Littleton, Colorado, United States.  With remote access, we can check the real-time status of any device plugged into the Emporia Smart Plugs and toggle it on or off from the Emporia App anytime, anywhere! The Emporia Smart Plug connects to the 2.4 GHz home WiFi, so that we cancontrol our device remotely from our phone with an internet connection. | * Store energy from solar or the grid to power their home during outages or times of high-cost energy. * Customers looking for Level 2 fast EV charging for their electric vehicles that can also be used to power their home with their car. * Residential customers seeking high-level insight for electricity usage and solar net metering for their entire home. | 50K |
| 12. | Nest Mobile | Controls nest thermostat, arm and disarm the Nest secure alarm system, see home with nest Cam and receive an alarm if Nest protect goes off.  Uses sensors, algorithms and the location of the phone to do the right thing automatically, turning off the heating and turning off the heating and turning on the camera when the person levaes. | * allows owners of a Nest thermostat to monitor and adjust the temperature in their home from anywhere with a smartphone. * reports energy usage and sends alerts about extreme temperatures. * Users can also watch the camera footage and receive alerts about smoke and carbon monoxide on their phones | 10M+ |
| 13. | Power Cost Mosnitor | people do need to install sensors to help the app gather the appropriate information, all products are simple to use and don’t require professional assistance.  The display unit, located inside the home, receives a wireless signal from the transmitter and displays the consumption information in real time and in dollars and cents. Other information is also displayed such as time and outside temperature. | * Energy usage information is available both online or via the app users can download on their mobile device. * Use the smart CSV import function for fast setup | 300K+ |
| 14. | Green Outlet | The app gives a list of preset appliances (i.e. 50+ in. Plasma; Window Fan) to add to the list and tells how much can be expected that appliance to use on the energy bill. It calculates some basic data based on where we live, how big our house is and how many people live there. The app’s main limitation is that it doesn’t let us create custom appliances, making it hard to estimate energy use accurately. | * alert to let users know if they are exceeding the recommended carbon usage * allow users to determine which home appliances consume the most energy. | 600K+ |
| 15. | Smappee | In order to use the app, Smappee provides a clip on sensor that users can quickly attach to their fuse box. From there, they can view and monitor their energy usage via the free app.  All information is provided to users in real time, and will display energy costs for the previous 30 days. | * it can pinpoint all of the appliances in a user’s home, from which one can determine overall costs and energy consumption. * Users can also control different energy elements from the app, so that if they are away from home, adjustments are only a few clicks away. | 400K+ |
| 16. | Meter Readings | The Meter Readings app can track up to five meters, such as water, electricity, and green energy sources. The app tracks the utility meters you already have in your home and compiles a consumption data report. Meter Readings will display all the meter data in easy-to-read graphs showing costs per day, week, month, and year. Past readings remain stored in the app so that you can compare recent data with reports from more than a year ago. | * Based on tracked data, show peak energy usage times, appliances using high energy and cost |  |
| 17 | mySunPower | For SunPower consumers who use solar panels to power their homes, there’s the free mySunPower app. As it tracks your solar power usage, the mySunPower app also provides information about solar energy production, home energy consumption costs, battery power flows, and system history. | * Views of solar production, home consumption, and battery power flows. * Historical system performance, including energy consumption data for homes equipped with energy consumption meters |  |
| 18. | Wattcost | Wattcost is an Australian start-up business that has designed a small device to measure and track your energy usage and solar production, as well as providing tips based on the data to help save you money. The app presents simple, easy to understand information showing energy costs and savings in dollars, kWh and CO2-e in real-time. | * Provide real time notifications for all the devices at home * Suggest methods of cost savings to the user * Reveals low cost energy plans to match actual home energy use |  |
| 19. | Sense | The Sense home energy monitor detects devices by identifying their unique electrical signals. The easy-to-use app allows you to monitor your electricity from anywhere, and when used in conjunction with the Sense Solar device, provides you with highly accurate whole-of-system energy overview. The Sense home monitor uses two clamp-on sensors and a 240v breaker, allowing it to measure current and voltage one million times per second to determine where your energy is going. Sense home monitor should be installed by a qualified electrician. Sense is also compatible with Alexa, Philips Hue, Wemo Insight and Kasa HS110 smart plugs. | * Understanding how much energy their home is using, when and where, empowers them to find savings. * Sense shows what’s turned on and off, so the user gain insight they can’t get from other smart devices. * The Power Meter tells the user exactly how much electricity they are using right now, with wattage steps up and down when devices turn on and off. |  |
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