# What are the effects of the positive and negative directions of the generator blades


## Overview

The polarity of the emf (positive of negative) corresponds to the direction of current entails positive and negative values which indicate direction of emf or induced current. Simple AC and DC generators have similar components and set-up as simple DC motor. The key difference is that in a DC motor, electrical energy is utilised (input) to rotate the armature, transforming. we'll discuss how it's generated. We'll see how fossil fuels such as coal, oil, and natural gas are used to produce mechanical motion and how that mechanical mot on is used to produce electric power. irrent affect rotating and other elec trica. However, when the generator is subjected to unbalanced. Electric generators induce an emf by rotating a coil in a magnetic field, as briefly discussed in "Induced Emf and Magnetic Flux. Consider the following example. 1 Induced Emf and Magnetic Flux.

## What are the effects of the positive and negative directions of the g

**Apply: electric generators (practice) , Khan Academy**

Apply your knowledge of electric generators in this set of free practice questions.

**23.5 Electric Generators - College Physics**

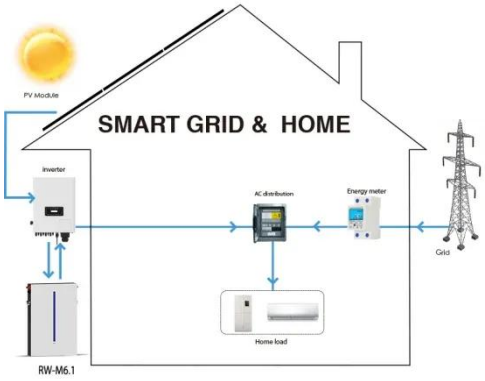
A generator with a single rectangular coil rotated at constant angular velocity in a uniform magnetic field produces an emf that varies sinusoidally in time. Note the generator is similar to a motor, except the ...

**Section 9.4 Electric Power Generation**

et is attracted toward the iron core. This attraction does (positive) work on the turning perma-nent magnet as the two poles approach but it also does negative work on the perma ent magnet as the ...

**Operation of generators**

On applying Fleming's right-hand rule to the sides AB and DC of the coil we find that the currents in them are in the directions B to A and D to C respectively.




**The Generator Effect**

Revision notes on The Generator Effect for the Oxford AQA IGCSE Physics syllabus, written by the Physics experts at Save My Exams.

**Electronics 101**

In the case of a battery, electricity flows in one direction, from positive to negative. Everything is straightforward. In the case of a generator, however, things get a bit more complicated. It is possible ...

**Physics revision , GCSE and A Level Physics Revision ...**

The current is positive (+) in one direction and negative in the other (-). The smooth rings play a critical role in the generation of alternating current.

### Operation of Simple DC and AC Generators

DC generators produce unidirectional current so their emf are conventionally displayed as positive. AC generators produce bidirectional current. The direction alternates twice every revolution. ...

### 23.8: Electric Generators

Note the generator is similar to a motor, except the shaft is rotated to produce a current rather than the other way around. Charges in the wires of the loop experience the magnetic force, because they are ...

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